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TO: Patricia Duffy
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Patricia A. Duffy, Ph.D.
Primary Patent Examiner
571-272-0855,
Remsen 3B05,
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1645

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OM protein - protein search, using sw model

Run on: July 15, 2006, 07:02:31 ; Search time 29 Seconds
(without alignments)
1420.340 Million cell updates/sec

Perfect score: 3945
Sequence: 1 MEGACWTLQGLTFLQLLLIS.....LSTAFYKVLPPKMIERNMK 720

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 204771 seqs, 57208143 residues

Total number of hits satisfying chosen parameters: 204771

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
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Listing first 1500 summaries

Database :

Published Applications AA New:*
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2: /EMC_Celerra_SIDS3/prodata/2/pubppaa/US06_NEW_PUB.pep:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	# Query Match	Length	DB ID	Description
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3	3936	99.8	720	US-11-354-653-32	Sequence 32, Appl
4	3828	97.0	699	US-11-354-653-86	Sequence 86, Appl
5	3617	91.7	720	US-11-354-653-118	Sequence 118, Appl
6	328	8.3	855	US-11-254-185-2	Sequence 2, Appl
7	328	8.3	855	US-11-253-869-2	Sequence 2, Appl
8	280	7.1	562	US-10-505-928-547	Sequence 547, Appl
9	280	7.1	562	US-11-183-218-56	Sequence 26, Appl
10	277.5	7.0	476	US-11-264-088-1	Sequence 1, Appl
11	277.5	7.0	476	US-11-311-475-1	Sequence 1, Appl
12	276.5	7.0	655	US-11-242-617-1	Sequence 1, Appl
13	275.5	7.0	406	US-10-512-754-2	Sequence 2, Appl
14	275.5	7.0	406	US-11-286-211A-1	Sequence 1, Appl
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16	275.5	7.0	444	US-10-511-937-1014	Sequence 3014, Appl
17	275.5	7.0	444	US-11-183-218-8	Sequence 8, Appl
18	271.5	6.9	244	US-10-544-944-6	Sequence 6, Appl
19	271.5	6.9	244	US-10-546-435-4	Sequence 4, Appl
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75	206	5.2	275	US-11-319-952-72	Sequence 72, Appl
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95	192.5	4.9	281	US-11-292-215-7	Sequence 7, Appl
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101	189	4.8	237	US-11-319-952-2	Sequence 2, Appl
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106	187	4.7	296	7	US-11-319-952-22	Sequence 22, Appl	181	148.5	3.8	470	7	US-11-217-997-26	Sequence 26, Appl
107	185.5	4.7	713	7	US-11-175-714-5	Sequence 5, Appl1	182	148.5	3.8	1403	7	US-11-217-997-12	Sequence 12, Appl
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109	182	4.6	721	7	US-11-175-714-7	Sequence 7, Appl1	184	148.5	3.8	1547	7	US-11-217-997-22	Sequence 22, Appl
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115	181	4.6	257	7	US-11-319-952-87	Sequence 87, Appl	190	147	3.7	244	7	US-11-247-886-3	Sequence 3, Appl1
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125	171.5	4.3	2413	6	US-10-511-937-2616	Sequence 2616, Ap	200	138	3.5	291	7	US-11-292-215-11	Sequence 11, Appl
126	171	4.3	256	7	US-11-319-952-44	Sequence 44, Appl	201	136.5	3.5	439	7	US-11-293-697-2765	Sequence 2765, Ap
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134	167.5	4.2	261	7	US-11-319-952-80	Sequence 80, Appl	208	135	3.4	567	7	US-11-246-999-50	Sequence 50, Appl
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138	162	4.1	288	6	US-10-449-902-40162	Sequence 40162, A	212	134	3.4	1821	6	US-10-519-328-1	Sequence 1, Appl1
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140	161	4.1	293	6	US-10-546-435-1	Sequence 1, Appl1	214	131	3.3	76	7	US-11-254-185-46	Sequence 46, Appl
141	161	4.1	293	6	US-11-319-952-14	Sequence 14, Appl	215	131	3.3	76	7	US-11-253-869-46	Sequence 46, Appl
142	160	4.1	113	7	US-11-254-185-28	Sequence 28, Appl	216	130.5	3.3	1398	7	US-11-217-997-4	Sequence 4, Appl1
143	160	4.1	113	7	US-11-253-869-28	Sequence 28, Appl	217	130.5	3.3	1350	7	US-11-217-997-6	Sequence 6, Appl1
144	160	4.1	222	6	US-10-511-937-2431	Sequence 2431, Ap	218	130.5	3.3	1594	7	US-11-217-997-18	Sequence 18, Appl
145	159	4.0	287	7	US-11-319-952-70	Sequence 70, Appl	219	129	3.3	244	7	US-11-247-886-8	Sequence 8, Appl1
147	158.5	4.0	283	7	US-11-357-337-2	Sequence 2, Appl1	220	129	3.3	490	7	US-11-293-697-3621	Sequence 3621, Ap
148	158	4.0	465	6	US-10-505-928-549	Sequence 549, App	221	128	3.2	342	7	US-11-038-753-1	Sequence 1, Appl1
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150	156	4.0	184	7	US-11-319-952-57	Sequence 57, Appl	223	126	3.2	330	6	US-10-505-928-521	Sequence 521, App
151	156	4.0	255	7	US-11-319-952-75	Sequence 75, Appl	224	126	3.2	708	7	US-11-293-697-4329	Sequence 4329, Ap
152	156	4.0	261	7	US-11-319-952-79	Sequence 79, Appl	225	124	3.1	911	7	US-11-226-554-89	Sequence 89, Appl
153	155.5	3.9	830	7	US-11-175-714-11	Sequence 11, Appl	227	123.5	3.1	1523	6	US-10-533-365-236	Sequence 236, App
154	154.5	3.9	254	7	US-11-247-886-1	Sequence 1, Appl1	228	121.5	3.1	491	7	US-11-217-997-30	Sequence 30, Appl
155	154	3.9	246	7	US-11-347-886-2	Sequence 2, Appl1	229	121	3.1	364	6	US-10-505-928-605	Sequence 605, App
156	153.5	3.9	610	6	US-10-505-928-580	Sequence 580, App	230	121	3.1	493	7	US-11-267-947-4	Sequence 4, Appl1
157	153	3.9	244	7	US-11-247-886-6	Sequence 6, Appl1	231	121	3.1	3396	6	US-10-505-928-449	Sequence 449, App
158	152.5	3.9	254	7	US-11-255-634-1	Sequence 1, Appl1	232	120.5	3.1	1431	7	US-11-352-664-2	Sequence 2, Appl1
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164	152	3.9	686	7	US-11-175-714-42	Sequence 42, Appl	238	115.5	2.9	448	7	US-11-267-947-5	Sequence 5, Appl1
165	152	3.9	686	7	US-11-175-714-44	Sequence 44, Appl	239	115	2.9	775	7	US-11-293-697-4433	Sequence 4433, Ap
166	152	3.9	686	7	US-11-175-714-46	Sequence 46, Appl	240	114	2.9	575	7	US-11-217-997-33	Sequence 32, Appl
167	151.5	3.8	277	7	US-11-397-134-17	Sequence 17, Appl	241	114	2.9	1394	7	US-11-352-664-25	Sequence 25, Appl
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178	150	3.8	276	6	US-10-546-435-8	Sequence 8, Appl1	254	108.5	2.8	545	7	US-11-101-316-110	Sequence 110, App

255	108.5	2.8	545	7	US-11-293-697-3725	Sequence 3725, Ap	331	91.5	2.3	1824	7	US-11-174-307B-1444	Sequence 1444, Ap
257	108	2.7	21	7	US-11-354-653-74	Sequence 74, Appl	332	91	2.3	223	7	US-11-321-421-110	Sequence 110, Appl
258	107	2.7	379	6	US-11-355-441-4	Sequence 4, Appl	333	91	2.3	1732	7	US-11-174-307B-470	Sequence 470, Appl
259	107	2.7	546	6	US-10-953-349-11117	Sequence 11117, A	334	90.5	2.3	820	6	US-10-982-808-26	Sequence 26, Appl
260	106.5	2.7	113	7	US-11-254-185-23	Sequence 23, Appl	335	90.5	2.3	94	6	US-10-449-902-43721	Sequence 43721, A
261	106.5	2.7	113	7	US-11-253-869-23	Sequence 23, Appl	336	90.5	2.3	1639	7	US-11-174-307B-1134	Sequence 1134, Ap
262	106.5	2.7	113	7	US-10-766-760-2	Sequence 2, Appl	337	90.5	2.3	1964	7	US-11-174-307B-4458	Sequence 4458, Ap
264	105.5	2.7	374	6	US-10-781-841-25	Sequence 25, Appl	338	90.5	2.3	2804	6	US-10-541-708-48	Sequence 48, Appl
265	105.5	2.7	816	6	US-10-781-841-17	Sequence 37, Appl	339	90	2.3	123	7	US-11-254-185-29	Sequence 29, Appl
266	104.5	2.6	111	7	US-11-254-185-25	Sequence 25, Appl	340	90	2.3	126	7	US-11-253-869-29	Sequence 29, Appl
267	104.5	2.6	111	7	US-11-253-869-25	Sequence 25, Appl	341	90	2.3	123	7	US-10-953-349-18257	Sequence 18257, A
268	104.5	2.6	379	7	US-11-293-697-3405	Sequence 3405, Ap	342	90	2.3	246	7	US-11-056-355B-57360	Sequence 57360, A
269	104.5	2.6	967	6	US-10-449-902-32043	Sequence 32043, A	343	90	2.3	260	6	US-10-933-349-18236	Sequence 18236, A
270	104	2.6	157	7	US-11-175-714-6	Sequence 6, Appl1	344	90	2.3	260	6	US-11-056-355B-57359	Sequence 57359, A
271	103.5	2.6	971	6	US-10-505-928-397	Sequence 397, Appl	345	90	2.3	382	6	US-10-953-349-30057	Sequence 30057, A
272	102.5	2.6	112	7	US-11-254-185-30	Sequence 30, Appl	346	90	2.3	408	6	US-10-953-349-30057	Sequence 30057, A
273	102.5	2.6	112	7	US-11-253-869-30	Sequence 30, Appl	347	90	2.3	455	6	US-10-953-349-30056	Sequence 30056, A
274	102	2.6	112	7	US-11-354-079-22	Sequence 22, Appl	348	90	2.3	651	6	US-10-449-902-36872	Sequence 36872, A
275	102	2.6	720	7	US-10-547-530-94	Sequence 94, Appl	349	90	2.3	802	6	US-10-449-902-55592	Sequence 55592, A
276	102	2.6	917	6	US-10-547-530-138	Sequence 138, Appl	350	89.5	2.3	50	7	US-11-354-079-12	Sequence 12, Appl
277	102	2.6	934	6	US-10-547-530-106	Sequence 106, Appl	351	89.5	2.3	53	7	US-11-288-853-21	Sequence 21, Appl
278	102	2.6	1013	6	US-10-547-530-122	Sequence 122, Appl	352	89.5	2.3	53	7	US-11-289-664A-21	Sequence 21, Appl
279	101.5	2.6	289	7	US-11-217-997-38	Sequence 28, Appl	353	89.5	2.3	56	6	US-10-547-530-90	Sequence 90, Appl
281	101.5	2.6	685	7	US-11-293-697-3546	Sequence 3546, Ap	354	89.5	2.3	91	7	US-11-225-400-13	Sequence 13, Appl
282	101.5	2.6	726	6	US-10-449-902-54661	Sequence 54661, A	355	89.5	2.3	797	6	US-10-449-902-52306	Sequence 52306, A
283	101	2.6	1822	6	US-10-505-928-700	Sequence 700, Appl	356	89.5	2.3	996	6	US-10-449-902-45223	Sequence 45223, A
284	100.5	2.5	471	6	US-10-953-349-22152	Sequence 22152, A	357	89.5	2.3	1333	7	US-11-174-307B-128	Sequence 1258, Ap
285	100.5	2.5	492	6	US-10-953-349-22151	Sequence 22151, A	358	89.5	2.3	1745	7	US-11-174-307B-960	Sequence 960, Appl
286	100	2.5	162	7	US-11-357-317-6	Sequence 6, Appl1	359	89	2.3	117	7	US-11-113-081A-12	Sequence 12, Appl
287	100	2.5	577	7	US-11-293-697-3485	Sequence 3485, Ap	360	89	2.3	1517	7	US-11-174-307B-616	Sequence 616, Appl
288	99	2.5	223	7	US-11-293-697-4500	Sequence 4500, Appl	361	89	2.3	1535	7	US-11-174-307B-944	Sequence 944, Appl
289	99	2.5	259	7	US-11-217-997-34	Sequence 34, Appl	362	89	2.3	1768	7	US-11-174-307B-864	Sequence 864, Appl
290	99	2.5	502	7	US-11-293-697-4802	Sequence 4802, Ap	363	89	2.3	1788	7	US-11-174-307B-1220	Sequence 1220, Appl
291	98.5	2.5	477	6	US-10-953-349-11118	Sequence 11118, A	364	89	2.3	1919	7	US-11-174-307B-978	Sequence 978, Appl
292	98	2.5	949	6	US-10-547-530-92	Sequence 92, Appl	365	88.5	2.2	52	7	US-11-244-452-15	Sequence 15, Appl
293	98	2.5	966	6	US-10-547-530-136	Sequence 136, Appl	366	88.5	2.2	229	7	US-11-293-697-4810	Sequence 4810, Ap
294	98	2.5	993	6	US-10-449-902-5747	Sequence 45747, A	367	88.5	2.2	612	7	US-11-056-355B-53787	Sequence 53787, A
295	98	2.5	1045	6	US-10-547-530-104	Sequence 104, Appl	368	88.5	2.2	917	7	US-11-293-697-2966	Sequence 2966, Ap
296	98	2.5	1080	6	US-10-547-530-120	Sequence 120, Appl	369	88.5	2.2	1047	7	US-11-293-697-3852	Sequence 3852, Ap
297	98	2.5	5738	6	US-10-505-928-150	Sequence 150, Appl	370	88.5	2.2	1252	7	US-11-174-307B-536	Sequence 536, Appl
298	97	2.5	724	7	US-11-293-697-3263	Sequence 3263, Ap	371	88.5	2.2	1732	7	US-11-174-307B-1238	Sequence 1238, Ap
299	97	2.5	1193	6	US-10-505-928-537	Sequence 537, Appl	372	88	2.2	799	6	US-10-505-928-716	Sequence 716, Appl
300	96.5	2.4	1475	6	US-11-174-307B-898	Sequence 898, Appl	373	88	2.2	1277	7	US-11-174-307B-634	Sequence 634, Appl
301	96	2.4	832	6	US-10-505-928-491	Sequence 491, Appl	374	88	2.2	1607	7	US-11-174-307B-4510	Sequence 4510, Ap
302	95.5	2.4	1611	7	US-11-174-307B-2234	Sequence 2234, Ap	375	88	2.2	2149	7	US-11-174-307B-3214	Sequence 3214, Ap
303	95.5	2.4	1611	7	US-11-174-307B-2552	Sequence 2552, Ap	376	87.5	2.2	687	7	US-11-289-102-370	Sequence 370, Appl
304	95	2.4	1220	7	US-11-174-307B-284	Sequence 284, Appl	378	87.5	2.2	1442	7	US-11-174-307B-1064	Sequence 1064, Ap
305	94	2.4	536	6	US-10-449-902-40167	Sequence 40167, A	379	87.5	2.2	7285	7	US-11-272-521-28	Sequence 28, Appl
306	94	2.4	1721	7	US-11-174-307B-968	Sequence 968, Appl	380	87	2.2	454	7	US-11-283-329-118	Sequence 118, Appl
307	94	2.4	1768	7	US-11-174-307B-1136	Sequence 1136, Ap	381	87	2.2	476	7	US-11-283-329-138	Sequence 138, Appl
308	93.5	2.4	433	6	US-10-953-349-1922	Sequence 1922, Ap	382	87	2.2	480	7	US-11-283-329-138	Sequence 136, Appl
309	93.5	2.4	468	6	US-10-511-937-2595	Sequence 2595, Ap	383	87	2.2	863	6	US-10-449-902-43861	Sequence 43861, A
310	93.5	2.4	486	6	US-10-953-349-1921	Sequence 1921, Ap	384	87	2.2	1248	7	US-11-174-307B-934	Sequence 934, Appl
311	93.5	2.4	501	6	US-10-953-349-1920	Sequence 1920, Ap	385	87	2.2	1333	7	US-11-174-307B-1404	Sequence 1404, Ap
312	93.5	2.4	687	6	US-10-449-902-33244	Sequence 33244, A	386	87	2.2	1439	7	US-11-174-307B-2274	Sequence 2274, Ap
313	93.5	2.4	783	6	US-10-983-908-48	Sequence 28, Appl	387	86.5	2.2	345	7	US-11-289-102-249	Sequence 249, Appl
314	93.5	2.4	880	6	US-10-449-902-14149	Sequence 41499, A	388	86.5	2.2	1960	7	US-11-174-307B-1298	Sequence 1298, Ap
315	93.5	2.4	1099	6	US-10-449-902-55236	Sequence 55236, A	389	86	2.2	423	6	US-10-953-349-22153	Sequence 22153, A
316	93.5	2.4	1630	7	US-11-174-307B-2222	Sequence 2222, Ap	390	86	2.2	909	6	US-10-449-902-44666	Sequence 44666, A
317	93	2.4	74	7	US-11-254-185-45	Sequence 45, Appl	391	86	2.2	969	6	US-10-505-928-94	Sequence 94, Appl
318	93	2.4	74	7	US-11-253-869-45	Sequence 45, Appl	392	86	2.2	1019	6	US-10-525-105-27	Sequence 27, Appl
319	93	2.4	483	7	US-11-293-697-7715	Sequence 3715, Ap	393	86	2.2	1033	6	US-10-535-105-25	Sequence 25, Appl
320	93	2.4	801	6	US-10-504-973-38	Sequence 38, Appl	394	86	2.2	1175	6	US-10-449-902-41614	Sequence 41614, A
321	93	2.4	1002	7	US-11-259-133-113	Sequence 113, Appl	395	86	2.2	1316	7	US-11-174-307B-588	Sequence 588, Appl
322	93	2.4	1418	7	US-11-174-307B-950	Sequence 950, Appl	396	86	2.2	1373	7	US-11-105-233-187	Sequence 187, Appl
323	92.5	2.3	569	7	US-11-174-307B-200	Sequence 200, Appl	397	86	2.2	1516	7	US-11-174-307B-4074	Sequence 4074, Ap
324	92.5	2.3	1042	7	US-11-121-154-176	Sequence 176, Appl	398	86	2.2	1522	7	US-11-174-307B-1154	Sequence 1154, Ap
325	92.5	2.3	1367	7	US-11-289-102-582	Sequence 362, Appl	399	86	2.2	1863	7	US-11-174-307B-988	Sequence 988, Appl
326	92.5	2.3	1544	7	US-11-174-307B-1374	Sequence 1374, Ap	400	86	2.2	1932	7	US-11-174-307B-1376	Sequence 1376, Appl
327	92	2.3	845	6	US-10-449-902-45752	Sequence 45752, A	401	86	2.2	1411	6	US-11-174-307B-1296	Sequence 1296, Ap
328	92	2.3	845	6	US-10-449-902-52863	Sequence 52863, A	402	85.5	2.2	411	7	US-10-953-349-8481	Sequence 8481, Ap
329	91.5	2.3	585	6	US-10-449-902-41383	Sequence 41383, A	403	85.5	2.2	411	7	US-11-056-355B-34823	Sequence 34823, A
330	91.5	2.3	1592	7	US-11-174-307B-1172	Sequence 1172, Ap	404	85.5	2.2	411	7	US-11-056-355B-40040	Sequence 40040, A

405	85.5	2.2	411	7	US-11-056-355B-89035	Sequence 89035, A	479	83.5	2.1	470	7	US-11-056-355B-74178	Sequence 74178, A
406	85.5	2.2	411	7	US-11-056-355B-92791	Sequence 92791, A	480	83.5	2.1	622	7	US-11-056-355B-74177	Sequence 74177, A
407	85.5	2.2	421	7	US-11-056-355B-89034	Sequence 89034, A	481	83.5	2.1	628	7	US-11-056-355B-77083	Sequence 77083, A
408	85.5	2.2	421	7	US-11-056-355B-92790	Sequence 92790, A	482	83.5	2.1	694	7	US-11-056-355B-45870	Sequence 45870, A
409	85.5	2.2	598	7	US-11-296-092-69	Sequence 69, App1	483	83.5	2.1	694	7	US-11-056-355B-77082	Sequence 77082, A
410	85.5	2.2	598	7	US-11-296-155-69	Sequence 69, App1	484	83.5	2.1	697	7	US-11-056-355B-45869	Sequence 45869, A
411	85.5	2.2	673	7	US-11-101-316-16	Sequence 16, App1	485	83.5	2.1	697	7	US-11-056-355B-77081	Sequence 77081, A
412	85.5	2.2	759	6	US-10-449-902-42287	Sequence 42287, A	486	83.5	2.1	697	7	US-11-056-355B-45868	Sequence 45868, A
413	85.5	2.2	1259	6	US-11-174-307B-1126	Sequence 1126, Ap	487	83.5	2.1	748	7	US-11-056-355B-85868	Sequence 85868, A
414	85.5	2.2	1529	7	US-11-174-307B-1114	Sequence 1114, Ap	488	83.5	2.1	838	7	US-11-174-307B-808	Sequence 808, App
415	85.5	2.2	1534	7	US-11-174-307B-2156	Sequence 2156, Ap	489	83.5	2.1	873	7	US-11-174-307B-1072	Sequence 1072, A
416	85.5	2.2	1739	7	US-11-174-307B-3342	Sequence 3342, Ap	490	83.5	2.1	1132	7	US-11-174-307B-6648	Sequence 6648, Ap
417	85.5	2.2	1881	7	US-11-174-307B-520	Sequence 520, App	491	83.5	2.1	1155	7	US-11-174-307B-6644	Sequence 6644, App
418	85.5	2.2	2202	6	US-10-544-731-8	Sequence 8, App1	492	83.5	2.1	1220	7	US-11-174-307B-1048	Sequence 1048, Ap
419	85.5	2.2	2227	6	US-10-544-731-7	Sequence 7, App1	493	83.5	2.1	1277	7	US-11-174-307B-888	Sequence 888, App
420	85.5	2.2	2233	6	US-10-544-731-9	Sequence 9, App1	494	83.5	2.1	1289	7	US-11-174-307B-2114	Sequence 2214, Ap
421	85	2.2	536	6	US-10-449-902-36867	Sequence 36867, A	495	83.5	2.1	1315	7	US-11-174-307B-4248	Sequence 4248, Ap
422	85	2.2	536	6	US-10-449-902-46163	Sequence 46163, A	496	83.5	2.1	1363	7	US-11-174-307B-4900	Sequence 4900, Ap
423	85	2.2	594	6	US-10-525-105-7	Sequence 7, App1	497	83.5	2.1	1424	7	US-11-174-307B-504	Sequence 504, App
424	85	2.2	639	6	US-10-525-105-10	Sequence 10, App1	498	83.5	2.1	1658	7	US-11-174-307B-2176	Sequence 2176, Ap
425	85	2.2	732	7	US-11-293-697-3575	Sequence 10, App1	499	83.5	2.1	1753	7	US-11-174-307B-802	Sequence 802, App
426	85	2.2	774	6	US-10-525-105-1	Sequence 1, App1	500	83	2.1	673	7	US-11-293-697-3749	Sequence 3749, Ap
427	85	2.2	774	6	US-11-226-554-111	Sequence 11, App1	501	83	2.1	1168	7	US-11-174-307B-700	Sequence 700, App
428	85	2.2	1019	6	US-10-525-105-22	Sequence 22, App1	502	83	2.1	1328	7	US-11-174-307B-3388	Sequence 3388, Ap
429	85	2.2	1020	6	US-10-525-105-17	Sequence 17, App1	503	83	2.1	1316	7	US-11-174-307B-704	Sequence 704, App
430	85	2.2	1023	6	US-10-525-105-20	Sequence 20, App1	504	83	2.1	1479	7	US-11-174-307B-758	Sequence 758, App
431	85	2.2	1024	6	US-10-525-105-15	Sequence 15, App1	505	83	2.1	1532	7	US-11-174-307B-1088	Sequence 1088, Ap
432	85	2.2	1302	7	US-11-174-307B-2424	Sequence 2424, App	506	83	2.1	1623	7	US-11-174-307B-1088	Sequence 1088, Ap
433	85	2.2	1350	7	US-11-174-307B-1316	Sequence 1316, Ap	507	83	2.1	1637	7	US-11-174-307B-1246	Sequence 1246, Ap
434	85	2.2	1488	7	US-11-174-307B-13986	Sequence 13986, Ap	508	83	2.1	1655	7	US-11-174-307B-1630	Sequence 1630, Ap
435	85	2.2	1518	7	US-11-174-307B-742	Sequence 742, App	509	83	2.1	1702	7	US-11-174-307B-2114	Sequence 2114, Ap
436	85	2.2	1597	7	US-11-174-307B-618	Sequence 618, App	510	83	2.1	1776	7	US-11-174-307B-5554	Sequence 5554, Ap
437	85	2.2	1784	7	US-11-174-307B-2856	Sequence 2856, Ap	511	83	2.1	1806	7	US-11-174-307B-872	Sequence 872, App
438	85	2.2	1796	7	US-11-174-307B-910	Sequence 910, App	512	83	2.1	1848	7	US-11-174-307B-1372	Sequence 1372, Ap
439	85	2.2	1851	7	US-11-174-307B-2240	Sequence 2240, Ap	513	83	2.1	2085	7	US-11-174-307B-954	Sequence 954, App
440	85	2.2	1973	7	US-11-174-307B-1378	Sequence 1378, Ap	514	83	2.1	5179	7	US-11-105-233-185	Sequence 185, App
441	85	2.2	2097	7	US-11-174-307B-4144	Sequence 4144, Ap	515	82.5	2.1	408	7	US-11-175-714-140	Sequence 140, App
442	84.5	2.1	363	7	US-11-354-653-82	Sequence 82, App1	516	82.5	2.1	477	6	US-10-953-349-11023	Sequence 11023, A
443	84.5	2.1	375	7	US-11-246-999-38	Sequence 38, App1	517	82.5	2.1	479	6	US-10-953-349-11022	Sequence 11022, A
444	84.5	2.1	383	7	US-10-505-928-825	Sequence 825, App	518	82.5	2.1	987	7	US-11-174-307B-1224	Sequence 1224, A
446	84.5	2.1	383	7	US-11-246-999-45	Sequence 45, App1	519	82.5	2.1	1108	7	US-11-174-307B-1122	Sequence 1122, Ap
447	84.5	2.1	383	7	US-11-246-999-126	Sequence 126, App1	520	82.5	2.1	1215	7	US-11-174-307B-2800	Sequence 2800, Ap
448	84.5	2.1	383	7	US-11-354-653-29	Sequence 29, App1	521	82.5	2.1	1300	7	US-11-174-307B-1250	Sequence 1250, Ap
449	84.5	2.1	413	7	US-11-246-999-125	Sequence 125, App	522	82.5	2.1	1375	7	US-11-174-307B-622	Sequence 622, App
450	84.5	2.1	430	7	US-11-175-714-138	Sequence 138, App	523	82.5	2.1	1481	7	US-11-174-307B-1162	Sequence 1162, App
451	84.5	2.1	547	7	US-11-293-697-2751	Sequence 2751, Ap	524	82.5	2.1	1530	7	US-11-174-307B-854	Sequence 854, App
452	84.5	2.1	1367	7	US-11-174-307B-510	Sequence 510, App	525	82.5	2.1	1860	7	US-11-174-307B-1132	Sequence 1132, A
453	84.5	2.1	1464	7	US-11-174-307B-1116	Sequence 1116, Ap	526	82.5	2.1	1938	7	US-11-174-307B-996	Sequence 996, App
454	84.5	2.1	1720	7	US-11-174-307B-3676	Sequence 3676, Ap	527	82	2.1	274	7	US-11-254-185-9	Sequence 9, App1
455	84.5	2.1	1859	7	US-11-174-307B-940	Sequence 940, App	528	82	2.1	274	7	US-11-253-863-9	Sequence 9, App1
456	84.5	2.1	2062	7	US-11-174-307B-876	Sequence 876, App	529	82	2.1	758	6	US-10-449-902-56544	Sequence 56544, A
457	84.5	2.1	2740	7	US-11-174-307B-1234	Sequence 1234, Ap	530	82	2.1	863	7	US-11-174-307B-2446	Sequence 2446, Ap
458	84	2.1	526	6	US-10-449-902-46218	Sequence 46218, A	531	82	2.1	1005	7	US-11-174-307B-1158	Sequence 1158, Ap
459	84	2.1	526	6	US-10-449-902-51492	Sequence 51492, A	532	82	2.1	1029	7	US-11-174-307B-1900	Sequence 1900, Ap
460	84	2.1	542	7	US-11-056-355B-53956	Sequence 53956, A	533	82	2.1	1125	7	US-11-174-307B-54	Sequence 54, App1
461	84	2.1	558	7	US-11-293-697-3165	Sequence 3163, App	534	82	2.1	1194	7	US-11-174-307B-328	Sequence 328, App
462	84	2.1	909	6	US-10-525-105-4	Sequence 4, App1	535	82	2.1	1214	7	US-11-174-307B-886	Sequence 886, App
463	84	2.1	1285	7	US-11-174-307B-1124	Sequence 1124, Ap	536	82	2.1	1245	7	US-11-174-307B-850	Sequence 850, App
464	84	2.1	1294	7	US-11-174-307B-314	Sequence 314, App	537	82	2.1	1283	7	US-11-174-307B-678	Sequence 678, App
465	84	2.1	1432	7	US-11-174-307B-2608	Sequence 2608, Ap	538	82	2.1	1449	7	US-11-174-307B-1362	Sequence 1362, Ap
466	84	2.1	1432	7	US-11-174-307B-946	Sequence 946, App	539	82	2.1	1462	7	US-11-174-307B-1412	Sequence 1412, Ap
467	84	2.1	1600	7	US-11-174-307B-636	Sequence 636, App	540	82	2.1	1504	7	US-11-174-307B-932	Sequence 932, App
468	84	2.1	1676	7	US-11-174-307B-628	Sequence 628, App	541	82	2.1	1653	7	US-11-174-307B-626	Sequence 626, App
469	84	2.1	1759	7	US-11-174-307B-942	Sequence 942, App	542	82	2.1	1680	7	US-11-174-307B-112	Sequence 712, App
470	84	2.1	1764	7	US-11-174-307B-900	Sequence 900, App	543	82	2.1	1857	7	US-11-174-307B-2192	Sequence 2192, Ap
471	84	2.1	1792	7	US-11-174-307B-1192	Sequence 1192, Ap	544	81.5	2.1	382	7	US-11-354-653-50	Sequence 50, App1
472	84	2.1	1811	7	US-11-174-307B-924	Sequence 924, App	545	81.5	2.1	407	7	US-11-174-307B-4	Sequence 4, App1
473	84	2.1	1818	7	US-11-174-307B-586	Sequence 586, App	546	81.5	2.1	777	6	US-10-449-902-42956	Sequence 42956, A
474	84	2.1	1847	7	US-11-174-307B-2852	Sequence 2852, App	547	81.5	2.1	800	7	US-11-056-355B-73161	Sequence 73161, A
475	84	2.1	1860	7	US-11-174-307B-612	Sequence 612, App	548	81.5	2.1	862	6	US-10-449-902-55157	Sequence 55157, A
476	84	2.1	1917	7	US-11-174-307B-2172	Sequence 2172, Ap	549	81.5	2.1	896	7	US-11-056-355B-73160	Sequence 73160, A
477	84	2.1	2195	7	US-11-174-307B-5412	Sequence 5412, Ap	550	81.5	2.1	930	6	US-10-449-902-44161	Sequence 44161, A
478	83.5	2.1	426	6	US-10-953-349-33790	Sequence 33790, A	551	81.5	2.1	985	7	US-11-293-697-2874	Sequence 2874, Ap

552	81.5	2.1	994	7	US-11-174-307B-918	Sequence 918, App	625	80	2.0	254	7	US-11-030-653-18	Sequence 18, Appl
553	81.5	2.1	1161	7	US-11-174-307B-1150	Sequence 1150, App	626	80	2.0	335	6	US-10-511-937-2469	Sequence 2469, App
554	81.5	2.1	1370	7	US-11-174-307B-858	Sequence 858, App	627	80	2.0	350	6	US-10-520-783-10	Sequence 10, Appl
555	81.5	2.1	1542	7	US-11-174-307B-1248	Sequence 1248, App	628	80	2.0	442	6	US-10-449-902-46671	Sequence 46671, A
556	81.5	2.1	1610	7	US-11-174-307B-1472	Sequence 1472, App	629	80	2.0	533	6	US-10-449-902-43727	Sequence 43727, A
557	81.5	2.1	1761	7	US-11-174-307B-1306	Sequence 1306, App	630	80	2.0	1017	7	US-11-174-307B-956	Sequence 956, App
558	81.5	2.1	1771	7	US-11-174-307B-928	Sequence 928, App	631	80	2.0	1053	7	US-11-174-307B-1230	Sequence 1230, App
559	81.5	2.1	1786	7	US-11-174-307B-602	Sequence 602, App	632	80	2.0	1217	7	US-11-105-333-186	Sequence 186, App
560	81.5	2.1	2013	7	US-11-174-307B-1226	Sequence 1226, App	633	80	2.0	1283	7	US-11-174-307B-578	Sequence 578, App
561	81	2.1	243	7	US-11-356-373-13	Sequence 13, Appl	634	80	2.0	1336	7	US-11-174-307B-1036	Sequence 1036, App
562	81	2.1	324	6	US-10-449-902-50892	Sequence 50892, A	635	80	2.0	1485	7	US-11-174-307B-1256	Sequence 1256, App
563	81	2.1	325	7	US-11-293-687-3615	Sequence 3615, App	636	80	2.0	1914	7	US-11-174-307B-1265	Sequence 1265, App
564	81	2.1	426	6	US-10-449-902-54143	Sequence 54143, A	637	80	2.0	2144	7	US-11-174-307B-3446	Sequence 3446, App
565	81	2.1	523	6	US-10-953-349-8162	Sequence 8162, App	638	80	2.0	3666	7	US-11-330-363-4	Sequence 4, Appl1
566	81	2.1	662	6	US-10-953-349-1607	Sequence 1607, App	639	79.5	2.0	195	7	US-11-056-355B-73250	Sequence 73250, A
567	81	2.1	662	7	US-11-056-355B-38224	Sequence 38224, A	640	79.5	2.0	217	6	US-10-471-571B-4354	Sequence 4354, App
568	81	2.1	662	7	US-11-056-355B-103367	Sequence 103367, A	641	79.5	2.0	266	6	US-10-449-902-37451	Sequence 37451, App
569	81	2.1	662	7	US-11-056-355B-114606	Sequence 114606, A	642	79.5	2.0	266	6	US-10-449-902-37451	Sequence 37451, App
570	81	2.1	732	6	US-10-953-349-1606	Sequence 1606, App	643	79.5	2.0	407	6	US-10-449-902-36216	Sequence 36216, A
571	81	2.1	732	7	US-11-056-355B-38223	Sequence 38223, A	644	79.5	2.0	881	6	US-10-449-902-47499	Sequence 47499, A
572	81	2.1	732	7	US-11-056-355B-103366	Sequence 103366, A	645	79.5	2.0	888	7	US-11-056-355B-83749	Sequence 83749, A
573	81	2.1	732	7	US-11-056-355B-114605	Sequence 114605, A	646	79.5	2.0	993	7	US-11-174-307B-4314	Sequence 4314, App
574	81	2.1	754	6	US-10-953-349-1605	Sequence 1605, App	647	79.5	2.0	1077	7	US-11-056-355B-79530	Sequence 79530, A
575	81	2.1	754	7	US-11-056-355B-38222	Sequence 38222, A	648	79.5	2.0	1088	7	US-11-056-355B-79529	Sequence 79529, A
576	81	2.1	754	7	US-11-056-355B-103365	Sequence 103365, A	649	79.5	2.0	1254	7	US-11-174-307B-638	Sequence 638, App
577	81	2.1	754	7	US-11-056-355B-114604	Sequence 114604, A	650	79.5	2.0	1254	7	US-11-056-355B-79528	Sequence 79528, A
578	81	2.1	765	7	US-11-165-586-16	Sequence 36, Appl1	651	79.5	2.0	1253	7	US-11-174-307B-1290	Sequence 1290, App
579	81	2.1	1135	7	US-11-174-307B-2204	Sequence 2204, App	652	79.5	2.0	1307	7	US-11-174-307B-4164	Sequence 4164, App
580	81	2.1	1153	7	US-11-174-307B-1236	Sequence 1236, App	653	79.5	2.0	1346	7	US-11-174-307B-676	Sequence 676, App
581	81	2.1	1233	7	US-11-174-307B-734	Sequence 734, App	654	79.5	2.0	1376	7	US-11-174-307B-3652	Sequence 3652, App
582	81	2.1	1351	7	US-11-174-307B-994	Sequence 994, App	655	79.5	2.0	1421	7	US-11-174-307B-1108	Sequence 1108, App
583	81	2.1	1395	7	US-11-174-307B-1130	Sequence 1130, App	656	79.5	2.0	1446	7	US-11-174-307B-662	Sequence 662, App
584	81	2.1	1432	7	US-11-174-307B-1180	Sequence 1180, App	657	79.5	2.0	1713	7	US-11-174-307B-2224	Sequence 2224, App
585	81	2.1	1436	7	US-11-174-307B-958	Sequence 958, App	658	79.5	2.0	1744	7	US-11-174-307B-580	Sequence 580, App
586	81	2.1	1443	7	US-11-174-307B-870	Sequence 870, App	659	79.5	2.0	2752	7	US-11-174-307B-2652	Sequence 2672, App
587	81	2.1	1510	7	US-11-174-307B-584	Sequence 584, App	660	79.5	2.0	383	6	US-10-449-902-35429	Sequence 35429, A
588	81	2.1	1573	7	US-11-174-307B-770	Sequence 770, App	661	79.5	2.0	579	6	US-11-056-355B-48545	Sequence 48545, A
589	81	2.1	1599	7	US-11-174-307B-1050	Sequence 1050, App	662	79.5	2.0	599	6	US-10-449-902-56026	Sequence 56026, A
590	81	2.1	1641	7	US-11-174-307B-760	Sequence 760, App	663	79.5	2.0	627	6	US-10-449-902-45396	Sequence 45396, A
591	81	2.1	1828	7	US-11-056-355B-88825	Sequence 88825, A	664	79.5	2.0	869	7	US-11-056-355B-83114	Sequence 83114, A
592	81	2.1	1828	7	US-11-056-355B-92581	Sequence 92581, A	665	79.5	2.0	873	7	US-11-056-355B-42213	Sequence 42251, A
593	81	2.1	1842	7	US-11-056-355B-82005	Sequence 82005, A	666	79.5	2.0	928	6	US-10-449-902-48283	Sequence 42251, A
594	81	2.1	1850	7	US-11-056-355B-82004	Sequence 82004, A	667	79.5	2.0	1007	7	US-11-174-307B-4898	Sequence 4898, App
595	81	2.1	1895	7	US-11-056-355B-82003	Sequence 82003, A	668	79.5	2.0	1181	7	US-11-174-307B-1288	Sequence 1288, App
596	81	2.1	1658	7	US-11-174-307B-1668	Sequence 1668, App	669	79.5	2.0	1280	7	US-11-174-307B-1204	Sequence 1204, App
597	80.5	2.0	45	7	US-11-217-997-43	Sequence 43, Appl1	670	79.5	2.0	1268	7	US-11-174-307B-754	Sequence 744, App
598	80.5	2.0	220	7	US-11-056-355B-41964	Sequence 41964, A	671	79.5	2.0	1306	7	US-11-174-307B-1254	Sequence 1254, App
599	80.5	2.0	221	7	US-11-056-355B-41963	Sequence 41963, A	672	79.5	2.0	1365	6	US-10-449-902-51794	Sequence 51794, A
600	80.5	2.0	470	7	US-11-056-355B-119761	Sequence 119761, A	673	79.5	2.0	1355	7	US-11-174-307B-2290	Sequence 2290, App
601	80.5	2.0	470	7	US-11-056-355B-119000	Sequence 119000, A	674	79.5	2.0	1449	7	US-11-174-307B-7290	Sequence 790, App
602	80.5	2.0	620	7	US-11-056-355B-107760	Sequence 107760, A	675	79.5	2.0	1493	7	US-11-174-307B-4196	Sequence 4196, App
603	80.5	2.0	620	7	US-11-056-355B-118999	Sequence 118999, A	676	79.5	2.0	1537	7	US-11-174-307B-716	Sequence 716, App
604	80.5	2.0	626	6	US-10-449-902-55581	Sequence 55581, A	677	79.5	2.0	1544	7	US-11-174-307B-758	Sequence 798, App
605	80.5	2.0	626	7	US-11-056-355B-107759	Sequence 107759, A	678	79.5	2.0	1581	7	US-11-297-134-61	Sequence 61, Appl
606	80.5	2.0	626	7	US-11-056-355B-118998	Sequence 118998, A	679	79.5	2.0	1681	7	US-11-174-307B-874	Sequence 874, App
607	80.5	2.0	728	6	US-10-449-902-44535	Sequence 44535, A	680	79.5	2.0	1711	7	US-11-174-307B-2190	Sequence 2190, App
608	80.5	2.0	742	7	US-11-289-102-241	Sequence 241, Appl1	681	79.5	2.0	1722	6	US-10-505-928-780	Sequence 780, App
609	80.5	2.0	798	7	US-11-292-634-6	Sequence 6, Appl1	682	79.5	2.0	1736	7	US-11-174-307B-664	Sequence 664, App
610	80.5	2.0	823	6	US-10-449-902-55109	Sequence 55109, A	683	79.5	2.0	1816	7	US-11-174-307B-930	Sequence 930, App
611	80.5	2.0	943	6	US-10-449-902-55109	Sequence 55109, A	684	79.5	2.0	1844	7	US-11-174-307B-930	Sequence 930, App
612	80.5	2.0	1055	7	US-11-174-307B-3194	Sequence 3194, App	685	79.5	2.0	2337	7	US-11-174-307B-1668	Sequence 1668, App
613	80.5	2.0	1086	7	US-11-174-307B-600	Sequence 600, App	686	79.5	2.0	62	7	US-11-324-846-3	Sequence 3, Appl1
614	80.5	2.0	1162	7	US-11-174-307B-2244	Sequence 2244, App	687	78.5	2.0	157	7	US-11-354-079-2	Sequence 2, Appl1
615	80.5	2.0	1234	7	US-11-174-307B-6254	Sequence 6254, App	688	78.5	2.0	194	7	US-11-056-355B-73251	Sequence 73251, A
616	80.5	2.0	1310	6	US-10-449-902-41338	Sequence 41328, A	689	78.5	2.0	444	6	US-10-449-902-30823	Sequence 30823, A
617	80.5	2.0	1322	7	US-11-174-307B-592	Sequence 592, App	690	78.5	2.0	986	7	US-11-226-554-101	Sequence 101, App
618	80.5	2.0	1407	7	US-11-174-307B-648	Sequence 648, App	691	78.5	2.0	1017	7	US-11-174-307B-3140	Sequence 3140, App
619	80.5	2.0	1448	7	US-11-174-307B-2194	Sequence 2194, App	692	78.5	2.0	1055	7	US-11-259-133-24	Sequence 24, Appl1
620	80.5	2.0	1517	7	US-11-174-307B-1202	Sequence 1202, App	693	78.5	2.0	1174	7	US-11-174-307B-666	Sequence 666, App
621	80.5	2.0	1549	7	US-11-174-307B-552	Sequence 552, App	694	78.5	2.0	1194	7	US-11-174-307B-1560	Sequence 5030, App
622	80.5	2.0	1662	7	US-11-174-307B-1966	Sequence 1966, App	695	78.5	2.0	1221	7	US-11-174-307B-1300	Sequence 1260, App
623	80.5	2.0	1865	7	US-11-174-307B-2174	Sequence 2174, App	696	78.5	2.0	1222	7	US-11-174-307B-2688	Sequence 2688, App
624	80	2.0	197	6	US-10-533-153-1	Sequence 1, Appl1	697	78.5	2.0	1291	7	US-11-174-307B-1080	Sequence 1080, App

698	78.5	2.0	1336	7	US-11-174-307B-532	Sequence 532, App	771	77.5	2.0	1101	7	US-11-056-355B-92745	Sequence 92745, A
699	78.5	2.0	1336	7	US-11-174-307B-2698	Sequence 2698, Ap	772	77.5	2.0	1182	7	US-11-11-174-307B-1872	Sequence 1872, Ap
700	78.5	2.0	1481	7	US-11-174-307B-878	Sequence 878, App	773	77.5	2.0	1212	7	US-11-11-174-307B-1696	Sequence 1696, Ap
701	78.5	2.0	1495	7	US-11-174-307B-776	Sequence 776, App	774	77.5	2.0	1228	7	US-11-11-174-307B-980	Sequence 980, App
702	78.5	2.0	1645	6	US-10-505-928-582	Sequence 582, App	775	77.5	2.0	1259	7	US-11-056-355B-88988	Sequence 88988, A
703	78.5	2.0	1636	7	US-11-174-307B-630	Sequence 630, App	776	77.5	2.0	1259	7	US-11-056-355B-82744	Sequence 82744, A
704	78.5	2.0	1863	7	US-11-174-307B-1830	Sequence 1830, Ap	777	77.5	2.0	1261	7	US-11-174-307B-668	Sequence 668, App
705	78.5	2.0	1918	7	US-11-174-307B-692	Sequence 692, App	778	77.5	2.0	1365	7	US-11-11-174-307B-2318	Sequence 2318, Ap
706	78.5	2.0	1919	7	US-11-174-307B-2170	Sequence 2170, Ap	779	77.5	2.0	1404	7	US-11-11-174-307B-1240	Sequence 1240, Ap
707	78.5	2.0	2101	7	US-11-174-307B-778	Sequence 778, App	780	77.5	2.0	1410	7	US-11-11-174-307B-964	Sequence 964, App
708	78.5	2.0	2327	7	US-11-174-307B-1292	Sequence 1292, Ap	781	77.5	2.0	1471	7	US-11-11-174-307B-1160	Sequence 1160, Ap
709	78.5	2.0	2366	7	US-11-174-307B-804	Sequence 804, App	782	77.5	2.0	1487	7	US-11-174-307B-696	Sequence 696, App
710	78.5	2.0	304	6	US-10-449-902-54577	Sequence 54577, A	783	77.5	2.0	1600	7	US-11-174-307B-544	Sequence 544, App
711	78	2.0	353	7	US-11-355-441-2	Sequence 2, App11	784	77.5	2.0	1600	7	US-11-174-307B-754	Sequence 754, App
712	78	2.0	382	6	US-10-953-349-2679	Sequence 2679, Ap	785	77.5	2.0	1608	7	US-11-11-174-307B-670	Sequence 670, App
713	78	2.0	382	7	US-11-056-355B-43481	Sequence 43481, A	786	77.5	2.0	1705	7	US-11-11-174-307B-1152	Sequence 1152, App
714	78	2.0	382	7	US-11-056-355B-84830	Sequence 84830, A	787	77.5	2.0	1713	7	US-11-11-174-307B-1720	Sequence 1720, Ap
715	78	2.0	401	6	US-10-953-349-2678	Sequence 2678, Ap	788	77.5	2.0	1735	7	US-11-11-174-307B-2246	Sequence 2246, Ap
716	78	2.0	401	7	US-11-056-355B-43480	Sequence 43480, A	789	77.5	2.0	1868	7	US-11-174-307B-4320	Sequence 4320, Ap
717	78	2.0	401	7	US-11-056-355B-84829	Sequence 84829, A	790	77.5	2.0	2062	7	US-11-174-307B-1454	Sequence 1454, Ap
718	78	2.0	412	7	US-11-056-355B-84828	Sequence 84828, A	791	77.5	2.0	3460	6	US-10-505-928-104	Sequence 104, App
719	78	2.0	413	6	US-10-953-349-2677	Sequence 2677, Ap	792	77.5	2.0	3460	6	US-11-217-997-10	Sequence 10, App1
720	78	2.0	413	7	US-11-056-355B-43479	Sequence 43479, A	793	77.5	2.0	162	7	US-11-217-997-10	Sequence 29673, A
721	78	2.0	429	6	US-10-505-928-835	Sequence 835, App	794	77.5	2.0	167	6	US-10-449-902-23673	Sequence 32487, A
722	78	2.0	502	6	US-10-449-902-53133	Sequence 53133, A	795	77.5	2.0	173	7	US-11-217-997-36	Sequence 36, App1
723	78	2.0	694	6	US-10-449-902-53143	Sequence 53143, A	796	77.5	2.0	286	7	US-11-056-355B-49911	Sequence 49911, A
724	78	2.0	709	7	US-11-317-061-2	Sequence 2, App11	797	77.5	2.0	294	7	US-11-056-355B-49910	Sequence 49910, A
725	78	2.0	765	7	US-11-292-634-2	Sequence 2, App11	798	77.5	2.0	308	7	US-11-056-355B-49909	Sequence 49909, A
726	78	2.0	864	6	US-10-449-902-46975	Sequence 46975, A	799	77.5	2.0	317	7	US-11-315-825-26	Sequence 26, App1
727	78	2.0	987	7	US-11-259-133-26	Sequence 26, App1	801	77.5	2.0	452	7	US-11-056-355B-25445	Sequence 25445, A
728	78	2.0	987	7	US-11-226-554-100	Sequence 100, App	802	77.5	2.0	456	7	US-11-056-355B-25444	Sequence 25444, A
729	78	2.0	1027	7	US-11-174-307B-4296	Sequence 4296, Ap	803	77.5	2.0	508	6	US-10-449-902-36555	Sequence 36555, A
730	78	2.0	1049	7	US-11-174-307B-624	Sequence 624, App	804	77.5	2.0	508	6	US-10-449-902-36505	Sequence 36505, A
731	78	2.0	1068	6	US-10-449-902-51003	Sequence 51003, A	805	77.5	2.0	547	7	US-11-174-307B-3762	Sequence 3762, Ap
732	78	2.0	1144	7	US-11-174-307B-506	Sequence 506, App	806	77.5	2.0	604	7	US-11-372-770-5	Sequence 5, App11
733	78	2.0	1168	7	US-11-174-307B-3226	Sequence 3226, Ap	807	77.5	2.0	695	7	US-11-056-355B-73410	Sequence 73410, A
734	78	2.0	1379	7	US-11-174-307B-646	Sequence 646, App	808	77.5	2.0	698	7	US-11-056-355B-73409	Sequence 73409, A
735	78	2.0	1395	7	US-11-056-355B-99178	Sequence 99178, A	809	77.5	2.0	699	7	US-11-056-355B-46826	Sequence 46826, A
736	78	2.0	1395	7	US-11-056-355B-110417	Sequence 110417, A	810	77.5	2.0	702	7	US-11-056-355B-46825	Sequence 46825, A
737	78	2.0	1396	7	US-11-174-307B-710	Sequence 710, App	811	77.5	2.0	757	7	US-11-292-634-4	Sequence 4, App11
738	78	2.0	1478	7	US-11-174-307B-5082	Sequence 5082, Ap	812	77.5	2.0	820	7	US-11-056-355B-73408	Sequence 73408, A
739	78	2.0	1483	7	US-11-174-307B-608	Sequence 608, App	813	77.5	2.0	821	7	US-11-326-389-10	Sequence 10, App1
740	78	2.0	1549	7	US-11-174-307B-814	Sequence 814, App	814	77.5	2.0	824	7	US-11-056-355B-46824	Sequence 46824, A
741	78	2.0	1733	7	US-11-174-307B-674	Sequence 674, App	815	77.5	2.0	836	6	US-10-449-902-47466	Sequence 47466, A
742	78	2.0	1737	7	US-11-174-307B-1070	Sequence 1070, Ap	816	77.5	2.0	1050	7	US-11-174-307B-7262	Sequence 7262, Ap
743	78	2.0	1937	7	US-11-174-307B-3074	Sequence 3074, Ap	817	77.5	2.0	1156	7	US-11-174-307B-756	Sequence 756, App
744	78	2.0	2016	7	US-11-174-307B-2188	Sequence 2188, Ap	818	77.5	2.0	1201	7	US-11-174-307B-1186	Sequence 1186, Ap
745	78	2.0	2017	7	US-11-174-307B-2682	Sequence 2682, Ap	819	77.5	2.0	1233	7	US-11-174-307B-784	Sequence 784, App
746	78	2.0	2030	7	US-11-174-307B-3682	Sequence 3682, Ap	820	77.5	2.0	1310	7	US-11-174-307B-1186	Sequence 1186, Ap
747	78	2.0	195	7	US-11-056-355B-89931	Sequence 89931, A	821	77.5	2.0	1319	7	US-11-174-307B-774	Sequence 774, App
748	77.5	2.0	125	7	US-11-056-355B-93687	Sequence 93687, A	822	77.5	2.0	1394	7	US-11-174-307B-640	Sequence 640, App
749	77.5	2.0	250	7	US-11-356-173-3	Sequence 3, App11	823	77.5	2.0	1401	7	US-11-174-307B-764	Sequence 764, App
750	77.5	2.0	250	7	US-11-056-355B-89930	Sequence 89930, A	824	77.5	2.0	1431	7	US-11-174-307B-1112	Sequence 1112, App
751	77.5	2.0	255	7	US-11-056-355B-93686	Sequence 93686, A	825	77.5	2.0	1449	7	US-11-056-355B-86756	Sequence 86756, A
752	77.5	2.0	229	7	US-11-293-697-3744	Sequence 3744, Ap	826	77.5	2.0	1462	7	US-11-174-307B-1174	Sequence 1174, Ap
753	77.5	2.0	315	7	US-10-449-902-31015	Sequence 63, App1	827	77.5	2.0	1482	7	US-11-174-307B-880	Sequence 880, App
754	77.5	2.0	324	6	US-10-449-902-54402	Sequence 54402, A	828	77.5	2.0	1532	7	US-11-056-355B-86755	Sequence 86755, A
755	77.5	2.0	334	6	US-10-449-902-56347	Sequence 56347, A	829	77.5	2.0	1552	7	US-11-174-307B-1110	Sequence 1110, Ap
756	77.5	2.0	363	7	US-11-293-697-3979	Sequence 3979, Ap	830	77.5	2.0	1663	7	US-11-056-355B-86754	Sequence 86754, A
757	77.5	2.0	404	7	US-11-293-697-4601	Sequence 4601, Ap	831	77.5	2.0	2235	7	US-11-174-307B-338	Sequence 938, App
758	77.5	2.0	517	7	US-11-056-355B-53957	Sequence 53957, A	832	77.5	2.0	58	7	US-11-324-846-7	Sequence 5472, App
759	77.5	2.0	539	7	US-11-293-697-2762	Sequence 2762, Ap	833	77.5	1.9	194	7	US-11-056-355B-89922	Sequence 89922, A
760	77.5	2.0	552	7	US-11-174-307B-192	Sequence 192, App	834	77.5	1.9	194	7	US-11-056-355B-93688	Sequence 93688, A
761	77.5	2.0	559	7	US-11-313-836-13	Sequence 13, App1	835	77.5	1.9	229	6	US-10-953-349-33475	Sequence 33475, A
762	77.5	2.0	888	7	US-11-174-307B-4400	Sequence 4400, Ap	836	77.5	1.9	254	6	US-10-953-349-33474	Sequence 33474, A
763	77.5	2.0	931	7	US-11-174-307B-852	Sequence 852, App	837	77.5	1.9	274	7	US-11-056-355B-37586	Sequence 37586, A
764	77.5	2.0	931	7	US-11-174-307B-2082	Sequence 2082, Ap	838	77.5	1.9	280	6	US-11-056-355B-37585	Sequence 37585, A
765	77.5	2.0	1035	7	US-11-174-307B-1704	Sequence 1704, Ap	839	77.5	1.9	289	7	US-11-056-355B-37584	Sequence 37584, A
766	77.5	2.0	1067	7	US-11-056-355B-88990	Sequence 88990, A	840	77.5	1.9	291	6	US-10-953-349-18822	Sequence 19622, A
767	77.5	2.0	1067	7	US-11-056-355B-92746	Sequence 92746, A	841	77.5	1.9	291	6	US-11-056-355B-92745	Sequence 37884, A
768	77.5	2.0	1101	7	US-11-056-355B-88989	Sequence 88989, A	842	77.5	1.9	291	7	US-11-056-355B-55600	Sequence 55600, A
769	77.5	2.0	1101	7	US-11-056-355B-88989	Sequence 88989, A	843	77.5	1.9	302	6	US-10-953-349-10130	Sequence 10130, A
770	77.5	2.0	1101	7	US-11-056-355B-88989	Sequence 88989, A	844	77.5	1.9	302	6	US-10-953-349-10130	Sequence 10130, A

845	76.5	1.9	303	6	US-10-953-349-19821	Sequence 19821, A	918	75.5	1.9	197	7	US-11-211-917-139	Sequence 139, App
846	76.5	1.9	303	7	US-11-056-355B-55559	Sequence 55599, A	919	75.5	1.9	237	6	US-10-504-973-22	Sequence 22, App1
847	76.5	1.9	309	6	US-10-953-349-19820	Sequence 19820, A	920	75.5	1.9	277	6	US-10-511-373-2518	Sequence 2518, App
848	76.5	1.9	309	7	US-11-056-355B-55558	Sequence 55598, A	921	75.5	1.9	277	7	US-11-170-797-5	Sequence 5, App1
849	76.5	1.9	331	6	US-10-953-349-10129	Sequence 10129, A	922	75.5	1.9	283	6	US-10-449-902-49086	Sequence 49086, A
850	76.5	1.9	419	6	US-11-056-355B-48347	Sequence 48347, A	923	75.5	1.9	315	7	US-11-140-450-62	Sequence 62, App1
851	76.5	1.9	464	6	US-10-488-015-17	Sequence 17, App1	924	75.5	1.9	323	6	US-10-449-902-56777	Sequence 56777, A
852	76.5	1.9	483	7	US-11-056-355B-48546	Sequence 48546, A	925	75.5	1.9	361	6	US-10-449-902-48803	Sequence 48803, A
853	76.5	1.9	804	6	US-10-449-902-53390	Sequence 53390, A	926	75.5	1.9	409	6	US-10-449-902-31249	Sequence 31249, A
854	76.5	1.9	824	6	US-10-449-902-51677	Sequence 51677, A	927	75.5	1.9	409	6	US-10-449-902-49417	Sequence 49417, A
855	76.5	1.9	824	7	US-11-174-307B-1042	Sequence 1042, A	928	75.5	1.9	553	7	US-11-233-089-6	Sequence 6, App1
856	76.5	1.9	924	6	US-10-449-902-41181	Sequence 41181, A	929	75.5	1.9	553	7	US-11-233-089-8	Sequence 8, App1
857	76.5	1.9	1125	7	US-11-174-307B-650	Sequence 650, App	930	75.5	1.9	595	7	US-11-293-697-4475	Sequence 4475, App
858	76.5	1.9	1187	7	US-11-174-307B-1142	Sequence 1142, App	931	75.5	1.9	633	7	US-11-312-770-13	Sequence 13, App1
859	76.5	1.9	1188	7	US-11-174-307B-1544	Sequence 1544, App	932	75.5	1.9	756	7	US-11-246-999-49	Sequence 49, App1
860	76.5	1.9	1252	7	US-11-174-307B-1544	Sequence 966, App	933	75.5	1.9	756	6	US-10-449-902-44363	Sequence 44363, A
861	76.5	1.9	1259	7	US-11-223-945-40	Sequence 40, App1	934	75.5	1.9	802	7	US-11-174-307B-5486	Sequence 5486, App
862	76.5	1.9	1275	7	US-11-174-307B-1886	Sequence 1886, App	935	75.5	1.9	860	6	US-10-449-902-35078	Sequence 35078, A
863	76.5	1.9	1337	7	US-11-174-307B-1360	Sequence 1360, App	936	75.5	1.9	989	6	US-10-449-902-41201	Sequence 41201, A
864	76.5	1.9	1378	7	US-11-174-307B-2818	Sequence 2818, App	937	75.5	1.9	1022	7	US-11-174-307B-4710	Sequence 4710, App
865	76.5	1.9	1383	7	US-11-174-307B-1782	Sequence 1782, App	938	75.5	1.9	1049	7	US-11-174-307B-468	Sequence 468, App
866	76.5	1.9	1413	7	US-11-174-307B-1286	Sequence 1286, App	939	75.5	1.9	1103	7	US-11-174-307B-2450	Sequence 2450, App
867	76.5	1.9	1433	7	US-11-174-307B-1200	Sequence 1200, App	940	75.5	1.9	1179	7	US-11-174-307B-508	Sequence 508, App
868	76.5	1.9	1482	7	US-11-174-307B-1804	Sequence 1804, App	941	75.5	1.9	1191	7	US-11-174-307B-2166	Sequence 2166, App
869	76.5	1.9	1486	7	US-11-174-307B-2236	Sequence 2236, App	942	75.5	1.9	1210	7	US-11-289-102-285	Sequence 285, App
870	76.5	1.9	1512	7	US-11-174-307B-550	Sequence 550, App	943	75.5	1.9	1210	7	US-11-289-621-512	Sequence 512, App
871	76.5	1.9	1649	7	US-11-174-307B-860	Sequence 860, App	944	75.5	1.9	1210	7	US-11-313-104-15	Sequence 15, App1
872	76.5	1.9	1673	7	US-11-174-307B-1178	Sequence 1178, App	945	75.5	1.9	1230	7	US-11-174-307B-1156	Sequence 1156, App
873	76.5	1.9	1698	7	US-11-174-307B-1148	Sequence 718, App	946	75.5	1.9	1336	7	US-11-174-307B-904	Sequence 904, App
874	76.5	1.9	1721	7	US-10-933-854-3	Sequence 1148, App	947	75.5	1.9	1345	7	US-11-174-307B-2248	Sequence 2248, App
875	76.5	1.9	1776	6	US-10-933-854-3	Sequence 3, App1	948	75.5	1.9	1357	7	US-11-174-307B-1946	Sequence 1946, App
876	76.5	1.9	1934	7	US-11-174-307B-1032	Sequence 1742, App	949	75.5	1.9	1358	7	US-11-174-307B-3238	Sequence 2338, App
877	76.5	1.9	2068	7	US-11-174-307B-1532	Sequence 1032, App	950	75.5	1.9	1439	7	US-11-174-307B-3364	Sequence 3364, App
878	76.5	1.9	3060	7	US-11-174-307B-1532	Sequence 1532, App	951	75.5	1.9	1456	6	US-10-505-928-69	Sequence 69, App1
879	76	1.9	167	6	US-10-953-349-25384	Sequence 25384, A	952	75.5	1.9	1457	7	US-11-174-307B-1094	Sequence 1094, App
880	76	1.9	186	7	US-11-056-355B-41965	Sequence 41965, A	953	75.5	1.9	1462	7	US-11-174-307B-1056	Sequence 1056, App
881	76	1.9	272	7	US-11-356-373-23	Sequence 23, App1	954	75.5	1.9	1482	7	US-11-174-307B-4372	Sequence 4372, App
882	76	1.9	292	7	US-10-953-349-8163	Sequence 25, App1	955	75.5	1.9	1522	7	US-11-174-307B-3966	Sequence 3966, App
883	76	1.9	350	6	US-10-449-902-52619	Sequence 52619, A	956	75.5	1.9	1523	7	US-11-174-307B-786	Sequence 786, App
884	76	1.9	473	6	US-10-449-902-54055	Sequence 54055, A	957	75.5	1.9	1602	7	US-11-174-307B-688	Sequence 688, App
885	76	1.9	473	6	US-10-449-902-55943	Sequence 55943, A	958	75.5	1.9	1659	7	US-11-174-307B-3184	Sequence 3184, App
886	76	1.9	642	6	US-10-480-021-8	Sequence 8, App1	959	75.5	1.9	1691	7	US-11-174-307B-762	Sequence 762, App
887	76	1.9	682	6	US-10-449-902-42322	Sequence 41300, A	960	75.5	1.9	1721	7	US-11-174-307B-3508	Sequence 3508, App
888	76	1.9	740	6	US-10-449-902-42322	Sequence 41300, A	961	75.5	1.9	1723	7	US-11-174-307B-908	Sequence 908, App
889	76	1.9	764	6	US-11-056-355B-89192	Sequence 89192, A	962	75.5	1.9	1942	7	US-11-174-307B-1096	Sequence 1096, App
890	76	1.9	838	7	US-11-056-355B-92948	Sequence 92948, A	963	75.5	1.9	1988	7	US-11-174-307B-2860	Sequence 2860, App
891	76	1.9	838	7	US-11-056-355B-89191	Sequence 89191, A	964	75.5	1.9	2072	7	US-11-174-307B-1184	Sequence 1184, App
892	76	1.9	848	7	US-11-056-355B-92947	Sequence 92947, A	965	75.5	1.9	2117	7	US-11-174-307B-2836	Sequence 2836, App
893	76	1.9	848	7	US-11-174-307B-1646	Sequence 1646, App	966	75.5	1.9	2782	7	US-11-174-307B-722	Sequence 722, App
894	76	1.9	873	7	US-11-056-355B-89190	Sequence 89190, A	967	75.5	1.9	2782	7	US-11-174-307B-722	Sequence 722, App
895	76	1.9	927	7	US-11-056-355B-92946	Sequence 92946, A	968	75.5	1.9	2791	7	US-11-174-307B-2836	Sequence 2836, App
896	76	1.9	927	7	US-11-056-355B-92946	Sequence 43300, App	969	75.5	1.9	2973	7	US-11-174-307B-1586	Sequence 1586, App
897	76	1.9	1149	7	US-11-174-307B-43390	Sequence 43300, App	970	75.5	1.9	4834	6	US-10-505-928-827	Sequence 827, App
898	76	1.9	1254	7	US-11-174-307B-686	Sequence 686, App	971	75	1.9	178	7	US-11-217-997-24	Sequence 24, App1
899	76	1.9	1292	7	US-11-174-307B-3538	Sequence 3538, App	972	75	1.9	192	7	US-11-056-355B-73552	Sequence 7352, A
900	76	1.9	1298	7	US-11-174-307B-970	Sequence 970, App	973	75	1.9	205	6	US-10-449-902-42167	Sequence 42167, A
901	76	1.9	1329	7	US-11-174-307B-914	Sequence 914, App	974	75	1.9	285	6	US-10-449-902-30160	Sequence 30160, A
902	76	1.9	1348	7	US-11-174-307B-2882	Sequence 2882, App	975	75	1.9	340	7	US-11-056-355B-50453	Sequence 50453, A
903	76	1.9	1382	7	US-11-174-307B-828	Sequence 828, App	976	75	1.9	414	6	US-10-449-902-52866	Sequence 52866, A
904	76	1.9	1382	7	US-11-174-307B-2402	Sequence 2402, App	977	75	1.9	416	6	US-10-953-349-30835	Sequence 30835, A
905	76	1.9	1395	7	US-11-174-307B-2624	Sequence 2624, App	978	75	1.9	455	7	US-11-056-355B-38194	Sequence 38194, A
906	76	1.9	1396	7	US-11-174-307B-366	Sequence 366, App	979	75	1.9	514	6	US-10-449-902-44440	Sequence 44440, A
907	76	1.9	1413	7	US-11-174-307B-936	Sequence 936, App	980	75	1.9	556	7	US-11-056-355B-53788	Sequence 53788, A
908	76	1.9	1535	7	US-11-174-307B-572	Sequence 572, App	981	75	1.9	585	7	US-11-056-355B-38193	Sequence 38193, A
909	76	1.9	1655	7	US-11-174-307B-962	Sequence 962, App	982	75	1.9	600	7	US-11-056-355B-38192	Sequence 38192, A
910	76	1.9	1739	7	US-11-174-307B-318	Sequence 318, App	983	75	1.9	603	6	US-10-953-349-10208	Sequence 10208, A
911	76	1.9	1826	7	US-11-174-307B-1400	Sequence 1400, App	984	75	1.9	609	6	US-10-953-349-10207	Sequence 10207, A
912	76	1.9	1957	7	US-11-174-307B-2230	Sequence 2230, App	985	75	1.9	769	7	US-11-246-999-67	Sequence 67, App1
913	76	1.9	2052	7	US-11-174-307B-652	Sequence 652, App	986	75	1.9	909	7	US-11-226-554-80	Sequence 80, App1
914	76	1.9	2323	7	US-11-165-586-48	Sequence 48, App1	987	75	1.9	1038	7	US-11-174-307B-2032	Sequence 2032, App
915	75.5	1.9	111	7	US-11-319-952-58	Sequence 58, App1	988	75	1.9	1084	7	US-11-174-307B-5106	Sequence 5106, App
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917	75.5	1.9	151	6	US-10-953-349-10119	Sequence 10119, A	990	75	1.9	1146	7	US-11-174-307B-2372	Sequence 2372, App

991	75	1.9	1167	7	US-11-174-307B-2734	Sequence 2734, Ap
992	75	1.9	1195	7	US-11-174-307B-2420	Sequence 2420, Ap
993	75	1.9	1199	7	US-11-174-307B-392	Sequence 392, Ap
994	75	1.9	1205	7	US-11-174-307B-418	Sequence 418, Ap
995	75	1.9	1205	7	US-11-174-307B-2392	Sequence 2392, Ap
996	75	1.9	1242	7	US-11-174-307B-1058	Sequence 1058, Ap
997	75	1.9	1245	7	US-11-174-307B-1904	Sequence 1904, Ap
998	75	1.9	1254	7	US-11-174-307B-1038	Sequence 1038, Ap
999	75	1.9	1254	7	US-11-174-307B-768	Sequence 768, Ap
1000	75	1.9	1335	7	US-11-174-307B-3964	Sequence 3964, Ap
1001	75	1.9	1343	7	US-11-174-307B-1146	Sequence 1146, Ap
1002	75	1.9	1370	7	US-11-174-307B-2124	Sequence 2124, Ap
1003	75	1.9	1452	7	US-11-174-307B-926	Sequence 926, Ap
1004	75	1.9	1479	7	US-11-174-307B-460	Sequence 460, Ap
1005	75	1.9	1535	7	US-11-174-307B-2384	Sequence 2384, Ap
1006	75	1.9	1596	7	US-11-174-307B-792	Sequence 792, Ap
1007	75	1.9	1692	7	US-11-174-307B-2858	Sequence 2858, Ap
1008	75	1.9	1709	7	US-11-174-307B-3210	Sequence 3210, Ap
1010	75	1.9	1861	7	US-11-174-307B-1744	Sequence 1744, Ap
1011	75	1.9	1873	7	US-11-174-307B-846	Sequence 846, Ap
1012	75	1.9	2003	7	US-11-174-307B-5496	Sequence 5496, Ap
1013	75	1.9	2169	7	US-11-051-725-5	Sequence 5, Appl1
1014	75	1.9	3020	7	US-11-140-487A-772	Sequence 772, Ap
1015	75	1.9	3723	7	US-11-174-307B-57841	Sequence 57841, Ap
1016	74.5	1.9	199	7	US-11-056-355B-12144	Sequence 12144, A
1017	74.5	1.9	223	7	US-11-056-355B-12144	Sequence 12144, A
1018	74.5	1.9	242	7	US-11-056-355B-12143	Sequence 2519, Ap
1019	74.5	1.9	260	6	US-10-511-937-2519	Sequence 12144, A
1020	74.5	1.9	279	7	US-11-056-355B-12142	Sequence 42, Appl
1021	74.5	1.9	290	7	US-11-254-185-42	Sequence 42, Appl
1022	74.5	1.9	290	7	US-11-253-869-42	Sequence 3401, Ap
1023	74.5	1.9	302	6	US-10-449-902-33401	Sequence 45977, A
1024	74.5	1.9	302	6	US-10-449-902-45977	Sequence 33001, A
1025	74.5	1.9	312	6	US-10-449-902-33001	Sequence 37233, A
1026	74.5	1.9	326	6	US-10-449-902-37235	Sequence 20311, A
1027	74.5	1.9	333	6	US-10-953-349-20311	Sequence 20310, A
1028	74.5	1.9	354	6	US-10-953-349-20310	Sequence 20309, A
1029	74.5	1.9	354	6	US-10-953-349-20309	Sequence 20309, A
1030	74.5	1.9	370	6	US-10-953-349-3933	Sequence 2958, Ap
1031	74.5	1.9	384	7	US-11-293-697-2758	Sequence 3933, Ap
1032	74.5	1.9	424	7	US-11-056-355B-54573	Sequence 54572, A
1033	74.5	1.9	425	7	US-11-056-355B-54572	Sequence 3934, Ap
1034	74.5	1.9	438	6	US-10-953-349-3934	Sequence 3934, Ap
1035	74.5	1.9	557	6	US-10-953-349-3933	Sequence 3, Appl1
1036	74.5	1.9	636	6	US-10-521-401A-3	Sequence 53465, A
1037	74.5	1.9	766	6	US-10-449-902-53465	Sequence 51122, A
1038	74.5	1.9	832	7	US-11-056-355B-75226	Sequence 75226, A
1039	74.5	1.9	840	7	US-11-056-355B-75225	Sequence 75225, A
1040	74.5	1.9	860	7	US-11-174-307B-1040	Sequence 1040, Ap
1041	74.5	1.9	907	7	US-11-174-307B-1040	Sequence 3988, Ap
1042	74.5	1.9	929	7	US-11-174-307B-3988	Sequence 1, Appl1
1043	74.5	1.9	984	6	US-10-528-029-1	Sequence 5470, Ap
1044	74.5	1.9	985	7	US-11-174-307B-5470	Sequence 30, Appl
1045	74.5	1.9	987	7	US-11-259-133-30	Sequence 88, Appl
1046	74.5	1.9	987	7	US-11-326-554-88	Sequence 48457, A
1047	74.5	1.9	989	6	US-10-449-902-48457	Sequence 4462, Ap
1048	74.5	1.9	1138	7	US-11-174-307B-4462	Sequence 4014, Ap
1049	74.5	1.9	1251	7	US-11-174-307B-4014	Sequence 548, App
1050	74.5	1.9	1496	7	US-11-174-307B-548	Sequence 2694, Ap
1051	74.5	1.9	1527	7	US-11-174-307B-2694	Sequence 1218, Ap
1052	74.5	1.9	1536	7	US-11-174-307B-1218	Sequence 1118, Ap
1053	74.5	1.9	1577	7	US-11-174-307B-1118	Sequence 1512, Ap
1054	74.5	1.9	1623	7	US-11-174-307B-1512	Sequence 5166, Ap
1055	74.5	1.9	1681	7	US-11-174-307B-5166	Sequence 1104, Ap
1056	74.5	1.9	1703	7	US-11-174-307B-1104	Sequence 6, Appl1
1057	74.5	1.9	1723	6	US-10-486-020-6	Sequence 1310, Ap
1058	74.5	1.9	1845	7	US-11-174-307B-1310	Sequence 708, App
1059	74.5	1.9	1883	7	US-11-174-307B-708	Sequence 1, Appl1
1060	74.5	1.9	1982	7	US-11-253-190-1	Sequence 1284, Ap
1061	74.5	1.9	2153	7	US-11-174-307B-1284	Sequence 1394, Ap
1062	74.5	1.9	2250	7	US-11-174-307B-1394	Sequence 2676, Ap
1063	74.5	1.9	2762	7	US-11-174-307B-2676	Sequence 10131, A
1064	74	1.9	187	6	US-10-953-349-10131	
1065	74	1.9	307	7	US-11-056-355B-31027	Sequence 31027, A
1066	74	1.9	307	7	US-11-056-355B-34617	Sequence 34617, A
1067	74	1.9	308	6	US-10-953-349-20717	Sequence 20717, A
1068	74	1.9	311	7	US-11-056-355B-31026	Sequence 31026, A
1069	74	1.9	312	7	US-11-056-355B-34616	Sequence 34616, A
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1071	74	1.9	322	6	US-10-449-902-29063	Sequence 29063, A
1072	74	1.9	334	6	US-10-449-902-31147	Sequence 31147, A
1073	74	1.9	334	6	US-10-449-902-36942	Sequence 36942, A
1074	74	1.9	359	7	US-11-056-355B-71729	Sequence 71729, A
1075	74	1.9	367	6	US-10-953-349-27896	Sequence 27896, A
1076	74	1.9	367	7	US-11-056-355B-69128	Sequence 69128, A
1077	74	1.9	403	7	US-11-056-355B-71728	Sequence 71728, A
1079	74	1.9	423	7	US-11-056-355B-71727	Sequence 71727, A
1080	74	1.9	442	6	US-10-953-349-27895	Sequence 27895, A
1081	74	1.9	442	6	US-11-056-355B-69127	Sequence 69127, A
1082	74	1.9	476	6	US-10-953-349-27894	Sequence 27894, A
1083	74	1.9	476	6	US-11-056-355B-69126	Sequence 69126, A
1084	74	1.9	543	7	US-11-174-307B-3106	Sequence 3106, Ap
1085	74	1.9	551	7	US-11-233-089-44	Sequence 44, Appl
1086	74	1.9	626	6	US-10-449-902-50861	Sequence 50861, A
1087	74	1.9	631	7	US-11-312-958-60	Sequence 28, Appl
1088	74	1.9	631	7	US-11-248-958-28	Sequence 5, Appl1
1089	74	1.9	692	6	US-10-370-959-5	Sequence 87776, A
1090	74	1.9	730	7	US-11-056-355B-87776	Sequence 83751, A
1091	74	1.9	778	7	US-11-056-355B-83751	Sequence 83751, A
1092	74	1.9	778	7	US-11-056-355B-87775	Sequence 83775, A
1093	74	1.9	780	7	US-11-056-355B-83750	Sequence 83750, A
1094	74	1.9	780	7	US-11-056-355B-87774	Sequence 87774, A
1095	74	1.9	832	7	US-11-174-307B-1324	Sequence 1324, Ap
1096	74	1.9	873	6	US-10-449-902-42960	Sequence 42960, A
1098	74	1.9	943	7	US-11-370-424-7	Sequence 7, Appl1
1099	74	1.9	943	7	US-11-174-307B-782	Sequence 782, Ap
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1101	74	1.9	995	7	US-11-056-355B-79317	Sequence 79317, A
1102	74	1.9	1022	6	US-10-449-902-52308	Sequence 52308, A
1103	74	1.9	1055	7	US-11-174-307B-4854	Sequence 2854, Ap
1104	74	1.9	1079	7	US-11-174-307B-4958	Sequence 4958, Ap
1105	74	1.9	1164	7	US-11-056-355B-79316	Sequence 79316, A
1106	74	1.9	1277	7	US-11-174-307B-440	Sequence 440, Ap
1107	74	1.9	1277	7	US-11-174-307B-440	Sequence 2512, Ap
1108	74	1.9	1280	7	US-11-174-307B-5512	Sequence 5512, Ap
1109	74	1.9	1298	7	US-11-174-307B-560	Sequence 560, Ap
1110	74	1.9	1376	7	US-11-174-307B-836	Sequence 836, Ap
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1112	74	1.9	1425	7	US-11-174-307B-706	Sequence 706, Ap
1113	74	1.9	1463	7	US-11-174-307B-1920	Sequence 1920, Ap
1114	74	1.9	1528	7	US-11-174-307B-4564	Sequence 4564, Ap
1115	74	1.9	1559	7	US-11-174-307B-984	Sequence 984, Ap
1116	74	1.9	1665	7	US-11-174-307B-2696	Sequence 2696, Ap
1117	74	1.9	1705	7	US-11-174-307B-4242	Sequence 4242, Ap
1118	74	1.9	1751	7	US-11-174-307B-1128	Sequence 1128, Ap
1119	74	1.9	1965	7	US-11-174-307B-1078	Sequence 1078, Ap
1120	74	1.9	2192	7	US-11-051-725-147	Sequence 147, Ap
1121	74	1.9	2221	6	US-10-829-000-3	Sequence 3, Appl1
1122	74	1.9	2221	7	US-11-051-725-162	Sequence 162, Ap
1123	74	1.9	2440	7	US-11-174-307B-1294	Sequence 1294, Ap
1124	73.5	1.9	222	7	US-11-356-373-15	Sequence 15, Appl
1125	73.5	1.9	229	7	US-11-356-373-6	Sequence 6, Appl1
1126	73.5	1.9	247	6	US-10-504-977-6	Sequence 18, Appl
1127	73.5	1.9	263	7	US-11-356-373-18	Sequence 18, Appl
1128	73.5	1.9	463	6	US-10-449-902-33444	Sequence 33444, A
1129	73.5	1.9	562	7	US-11-056-355B-18317	Sequence 18317, A
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1131	73.5	1.9	594	7	US-11-056-355B-18939	Sequence 18939, A
1132	73.5	1.9	625	7	US-11-174-307B-4446	Sequence 5446, Ap
1133	73.5	1.9	639	6	US-10-449-902-53967	Sequence 53967, A
1134	73.5	1.9	639	6	US-10-449-902-53962	Sequence 53962, A
1135	73.5	1.9	641	6	US-10-449-902-41230	Sequence 41230, A
1136	73.5	1.9	645	7	US-11-056-355B-90679	Sequence 90679, A
1137	73.5	1.9	645	7	US-11-056-355B-94829	Sequence 94829, A
1138	73.5	1.9	710	7	US-11-174-307B-4112	Sequence 4112, Ap
1139	73.5	1.9	737	6	US-10-449-902-41609	Sequence 41609, A

1140	73.5	1.9	739	7	US-11-056-355B-90872	Sequence 90872, A	1214	73	1.9	1546	7	US-11-174-307B-1896	Sequence 1896, Ap
1141	73.5	1.9	739	7	US-11-056-355B-94628	Sequence 94628, A	1215	73	1.9	1558	7	US-11-174-307B-856	Sequence 856, App
1142	73.5	1.9	771	6	US-10-449-902-53293	Sequence 53293, A	1216	73	1.9	1565	7	US-11-174-307B-1824	Sequence 1824, Ap
1143	73.5	1.9	777	6	US-10-953-349-35469	Sequence 35469, A	1217	73	1.9	1567	7	US-11-174-307B-2116	Sequence 2116, Ap
1144	73.5	1.9	780	7	US-11-056-355B-90871	Sequence 90871, A	1218	73	1.9	1581	7	US-11-174-307B-906	Sequence 906, App
1145	73.5	1.9	780	7	US-11-056-355B-94627	Sequence 94627, A	1219	73	1.9	1605	7	US-11-056-355B-88407	Sequence 88407, A
1146	73.5	1.9	895	6	US-10-953-349-35468	Sequence 35468, A	1220	73	1.9	1605	7	US-11-056-355B-92163	Sequence 92163, A
1147	73.5	1.9	937	6	US-10-953-349-35467	Sequence 35467, A	1221	73	1.9	1641	7	US-11-174-307B-1340	Sequence 1340, Ap
1148	73.5	1.9	937	6	US-10-449-902-45265	Sequence 45265, A	1222	73	1.9	1646	7	US-11-056-355B-88406	Sequence 88406, A
1149	73.5	1.9	1059	7	US-11-174-307B-1214	Sequence 1214, A	1223	73	1.9	1646	7	US-11-056-355B-92162	Sequence 92162, A
1150	73.5	1.9	1072	6	US-10-449-902-53937	Sequence 53937, A	1224	73	1.9	1673	7	US-11-174-307B-812	Sequence 812, App
1151	73.5	1.9	1231	7	US-11-174-307B-1168	Sequence 1168, Ap	1225	73	1.9	1689	7	US-11-174-307B-1196	Sequence 1196, Ap
1152	73.5	1.9	1258	7	US-11-174-307B-1612	Sequence 1612, Ap	1226	73	1.9	1703	7	US-11-174-307B-558	Sequence 558, App
1153	73.5	1.9	1289	7	US-11-174-307B-2922	Sequence 2922, Ap	1227	73	1.9	1703	7	US-11-174-307B-2214	Sequence 2214, Ap
1154	73.5	1.9	1291	7	US-11-174-307B-1206	Sequence 1206, Ap	1228	73	1.9	1703	7	US-11-174-307B-2576	Sequence 2576, Ap
1155	73.5	1.9	1300	7	US-11-174-307B-112	Sequence 112, App	1229	73	1.9	1714	7	US-11-174-307B-1068	Sequence 1068, Ap
1156	73.5	1.9	1302	7	US-11-174-307B-2152	Sequence 2152, Ap	1230	73	1.9	1757	7	US-11-174-307B-554	Sequence 554, App
1157	73.5	1.9	1324	7	US-11-174-307B-1210	Sequence 1210, Ap	1231	73	1.9	1773	7	US-11-056-355B-88405	Sequence 88405, A
1158	73.5	1.9	1389	7	US-11-174-307B-1304	Sequence 1304, Ap	1232	73	1.9	1773	7	US-11-056-355B-92161	Sequence 92161, A
1159	73.5	1.9	1391	7	US-11-174-307B-4782	Sequence 4782, Ap	1233	73	1.9	2047	7	US-11-174-307B-680	Sequence 680, App
1160	73.5	1.9	1405	7	US-11-174-307B-2296	Sequence 2296, Ap	1234	73	1.9	2133	7	US-11-174-307B-894	Sequence 894, App
1161	73.5	1.9	1428	7	US-11-174-307B-1144	Sequence 1144, Ap	1235	73	1.9	2209	7	US-11-301-554-1903	Sequence 1903, Ap
1162	73.5	1.9	1437	7	US-11-174-307B-2014	Sequence 2014, Ap	1236	73	1.9	2235	7	US-11-174-307B-2036	Sequence 2036, Ap
1163	73.5	1.9	1438	7	US-11-174-307B-1176	Sequence 1176, Ap	1237	73	1.9	3250	7	US-11-174-307B-2282	Sequence 2282, Ap
1164	73.5	1.9	1481	7	US-11-174-307B-1190	Sequence 1190, Ap	1238	73	1.9	3682	7	US-11-174-307B-2486	Sequence 2486, App
1165	73.5	1.9	1506	7	US-11-174-307B-1870	Sequence 1870, Ap	1239	73	1.8	62	7	US-11-324-846-4	Sequence 4, Appl1
1166	73.5	1.9	1567	7	US-11-174-307B-1212	Sequence 1212, Ap	1240	72.5	1.8	234	6	US-10-449-902-9114	Sequence 49114, A
1167	73.5	1.9	1750	7	US-11-174-307B-570	Sequence 570, App	1241	72.5	1.8	279	6	US-10-505-928-623	Sequence 623, App
1168	73.5	1.9	1751	7	US-11-174-307B-2426	Sequence 2426, Ap	1242	72.5	1.8	321	7	US-11-056-355B-9750	Sequence 9750, Ap
1169	73.5	1.9	1818	7	US-11-174-307B-732	Sequence 732, App	1243	72.5	1.8	370	6	US-10-449-902-93554	Sequence 93554, A
1170	73.5	1.9	1869	7	US-11-174-307B-746	Sequence 746, App	1244	72.5	1.8	384	6	US-10-953-349-1071	Sequence 1071, Ap
1171	73.5	1.9	1942	7	US-11-174-307B-2732	Sequence 2732, Ap	1245	72.5	1.8	406	7	US-11-056-355B-9749	Sequence 9749, Ap
1172	73.5	1.9	1959	7	US-11-174-307B-1428	Sequence 1428, Ap	1246	72.5	1.8	428	6	US-10-449-902-44200	Sequence 44200, A
1173	73.5	1.9	1961	7	US-11-174-307B-1714	Sequence 1714, Ap	1247	72.5	1.8	459	6	US-10-953-349-1070	Sequence 1070, Ap
1174	73.5	1.9	2628	7	US-11-174-307B-2692	Sequence 2692, Ap	1248	72.5	1.8	466	7	US-11-174-307B-1342	Sequence 1342, Ap
1175	73.5	1.9	3399	6	US-10-547-530-47	Sequence 47, Appl1	1249	72.5	1.8	470	6	US-10-953-349-1069	Sequence 1069, Ap
1176	73	1.9	241	7	US-11-351-617-4	Sequence 4, Appl1	1250	72.5	1.8	513	6	US-10-953-349-12711	Sequence 32711, A
1177	73	1.9	241	7	US-11-315-825-3	Sequence 3, Appl1	1251	72.5	1.8	513	6	US-11-056-355B-68863	Sequence 68863, A
1178	73	1.9	245	6	US-10-449-902-38546	Sequence 38546, A	1252	72.5	1.8	541	6	US-10-449-902-48916	Sequence 48916, A
1179	73	1.9	311	7	US-11-351-617-8	Sequence 8, Appl1	1253	72.5	1.8	542	7	US-11-056-355B-45215	Sequence 45215, A
1180	73	1.9	318	6	US-10-953-349-3274	Sequence 3274, Ap	1254	72.5	1.8	548	6	US-10-953-349-92270	Sequence 92270, A
1181	73	1.9	329	6	US-10-953-349-13707	Sequence 13707, Ap	1255	72.5	1.8	548	7	US-11-056-355B-68862	Sequence 68862, A
1182	73	1.9	329	6	US-11-056-355B-54862	Sequence 54862, A	1256	72.5	1.8	557	7	US-11-056-355B-71776	Sequence 71276, A
1183	73	1.9	329	6	US-11-056-355B-55583	Sequence 55583, A	1257	72.5	1.8	591	7	US-11-056-355B-91853	Sequence 91853, A
1184	73	1.9	338	6	US-10-953-349-3273	Sequence 3273, A	1258	72.5	1.8	591	7	US-11-056-355B-95609	Sequence 95609, A
1185	73	1.9	353	6	US-10-953-349-13706	Sequence 13706, A	1259	72.5	1.8	594	7	US-11-056-355B-71275	Sequence 71275, A
1186	73	1.9	353	6	US-11-056-355B-55582	Sequence 55582, A	1260	72.5	1.8	595	7	US-11-293-697-1045	Sequence 3045, Ap
1187	73	1.9	354	6	US-10-449-902-40808	Sequence 40808, A	1261	72.5	1.8	603	7	US-11-293-697-3185	Sequence 3185, Ap
1188	73	1.9	382	6	US-10-449-902-28753	Sequence 28753, A	1262	72.5	1.8	613	6	US-10-953-349-12709	Sequence 32709, A
1189	73	1.9	457	6	US-10-449-902-31359	Sequence 31359, A	1263	72.5	1.8	613	7	US-11-056-355B-68861	Sequence 68861, A
1190	73	1.9	457	6	US-10-449-902-50709	Sequence 50709, A	1264	72.5	1.8	617	7	US-11-056-355B-45214	Sequence 45214, A
1191	73	1.9	518	7	US-11-174-307B-3402	Sequence 3402, Ap	1265	72.5	1.8	631	6	US-10-449-902-65154	Sequence 46154, A
1192	73	1.9	521	6	US-10-526-905-11	Sequence 11, Appl	1266	72.5	1.8	648	7	US-11-056-355B-71274	Sequence 71274, A
1193	73	1.9	605	6	US-10-449-902-45413	Sequence 45413, A	1267	72.5	1.8	696	7	US-11-289-102-309	Sequence 309, App
1194	73	1.9	631	6	US-10-449-902-53311	Sequence 53311, A	1268	72.5	1.8	720	7	US-11-174-307B-4966	Sequence 4966, App
1195	73	1.9	731	6	US-10-480-962-413	Sequence 13, Appl	1269	72.5	1.8	725	7	US-11-056-355B-91852	Sequence 91852, A
1196	73	1.9	731	6	US-11-293-697-4126	Sequence 4126, Ap	1270	72.5	1.8	748	7	US-11-056-355B-95608	Sequence 95608, A
1197	73	1.9	764	7	US-11-191-244-65	Sequence 65, Appl	1271	72.5	1.8	748	7	US-11-056-355B-111994	Sequence 111994, A
1198	73	1.9	814	6	US-10-449-902-54355	Sequence 54355, A	1272	72.5	1.8	773	7	US-11-056-355B-91851	Sequence 91851, A
1199	73	1.9	862	6	US-10-449-902-46465	Sequence 46465, A	1273	72.5	1.8	773	7	US-11-056-355B-95607	Sequence 95607, A
1200	73	1.9	1050	6	US-11-174-307B-720	Sequence 720, App	1274	72.5	1.8	788	7	US-11-174-307B-810	Sequence 816, App
1201	73	1.9	1066	6	US-10-449-902-43289	Sequence 43289, A	1275	72.5	1.8	788	7	US-11-056-355B-100755	Sequence 100755, A
1202	73	1.9	1136	7	US-11-174-307B-2504	Sequence 2504, Ap	1276	72.5	1.8	947	7	US-11-056-355B-91153	Sequence 111594, A
1203	73	1.9	1299	7	US-11-174-307B-1524	Sequence 1524, Ap	1277	72.5	1.8	948	6	US-10-449-902-11153	Sequence 11153, A
1204	73	1.9	1377	7	US-11-174-307B-518	Sequence 518, App	1278	72.5	1.8	989	7	US-11-283-329-168	Sequence 168, App
1205	73	1.9	1402	7	US-11-174-307B-3462	Sequence 3462, App	1279	72.5	1.8	1053	7	US-11-174-307B-596	Sequence 596, App
1206	73	1.9	1434	7	US-11-174-307B-1194	Sequence 1194, Ap	1280	72.5	1.8	1057	7	US-11-174-307B-3430	Sequence 3420, App
1208	73	1.9	1462	7	US-11-174-307B-542	Sequence 542, App	1281	72.5	1.8	1144	7	US-11-174-307B-2720	Sequence 2720, App
1209	73	1.9	1486	7	US-11-174-307B-684	Sequence 684, App	1282	72.5	1.8	1210	7	US-11-105-233-189	Sequence 189, App
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760	3088.5	78.3	567	6	US-11-045-029-2
761	2946.5	74.7	570	4	US-10-067-422-9
762	2413	61.2	455	3	US-09-833-245-1401
763	2413	61.2	455	6	US-11-264-096-1401
764	1708.5	43.3	323	3	US-09-833-245-1402
765	1708.5	43.3	323	6	US-11-264-096-1402
766	949	17.0	181	5	US-10-756-148-4828
767	949	17.0	181	5	US-10-183-992-4
768	672	16.0	1019	5	US-10-480-254-4
769	665	16.9	1019	4	US-10-183-992-8
770	665	16.9	1019	4	US-10-638-125-4
771	665	16.9	1019	5	US-10-480-254-8
772	665	16.9	1083	4	US-10-183-992-6
773	665	16.9	1083	4	US-10-638-125-2

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775	478	12.1	699	6	US-11-150-887-43	Sequence 43, Appli
776	476	12.1	699	9	US-10-388-322-2	Sequence 2, Appli
777	475	12.0	699	5	US-10-820-155-93	Sequence 93, Appli
778	475	12.0	704	5	US-10-989-891-148	Sequence 148, App
779	471	11.9	728	4	US-10-148-671-5	Sequence 5, Appli
780	469.5	11.9	679	3	US-09-874-198-6	Sequence 6, Appli
781	469.5	11.9	679	6	US-09-874-228-6	Sequence 6, Appli
782	469.5	11.9	679	6	US-11-032-149-6	Sequence 6, Appli
783	468	11.9	728	4	US-10-388-322-4	Sequence 92, Appli
784	468	11.9	728	5	US-10-820-155-82	Sequence 1, Appli
785	461	11.7	728	5	US-10-239-022-1	Sequence 55, Appli
786	423	10.7	670	6	US-11-150-883-55	Sequence 54, Appli
787	423	10.7	685	6	US-11-150-883-54	Sequence 52, Appli
788	412	10.4	670	6	US-11-150-883-52	Sequence 51, Appli
789	412	10.4	685	6	US-11-150-883-51	Sequence 7, Appli
790	403.5	10.2	688	3	US-09-874-198-7	Sequence 7, Appli
791	403.5	10.2	688	6	US-11-032-149-7	Sequence 7, Appli
792	403.5	10.2	688	6	US-09-808-602-94	Sequence 94, Appli
793	403.5	10.2	705	3	US-09-800-198-81	Sequence 81, Appli
794	403.5	10.2	705	3	US-10-257-021-66	Sequence 66, Appli
795	403.5	10.2	705	5	US-10-287-436A-452	Sequence 452, App
796	403.5	10.2	705	5	US-10-287-436A-1152	Sequence 1152, Ap
797	403.5	10.2	705	5	US-10-989-891-144	Sequence 144, App
798	403.5	10.2	705	5	US-10-821-234-1532	Sequence 1532, Ap
799	403.5	10.2	686	3	US-09-874-198-2	Sequence 2, Appli
800	401.5	10.2	686	3	US-09-874-198-2	Sequence 12, Appli
801	401.5	10.2	686	5	US-10-974-148-12	Sequence 90, Appli
802	401.5	10.2	686	5	US-10-820-155-80	Sequence 4705, Ap
803	401.5	10.2	686	5	US-10-756-149-4705	Sequence 2, Appli
804	401.5	10.2	686	6	US-11-032-149-2	Sequence 5, Appli
805	401.5	10.2	686	6	US-11-150-883-5	Sequence 5, Appli
806	401.5	10.2	686	6	US-11-150-887-5	Sequence 3, Appli
807	401.5	10.2	686	4	US-10-388-322-3	Sequence 2, Appli
808	400.5	10.2	686	4	US-10-332-713-2	Sequence 152, App
809	400.5	10.2	686	5	US-10-989-891-152	Sequence 6, Appli
810	400.5	10.2	671	6	US-11-150-883-6	Sequence 6, Appli
811	399.5	10.1	671	6	US-11-150-887-6	Sequence 3, Appli
812	399.5	10.1	671	6	US-10-332-713-3	Sequence 1024, Ap
813	398.5	10.1	671	6	US-09-925-301-1024	Sequence 8, Appli
814	336	8.5	673	3	US-09-874-198-8	Sequence 8, Appli
815	334	8.5	673	3	US-09-874-228-8	Sequence 8, Appli
816	334	8.5	673	6	US-11-032-149-8	Sequence 81, Appli
817	334	8.5	688	5	US-10-820-155-81	Sequence 96, Appli
818	334	8.5	688	5	US-10-287-436A-99	Sequence 1256, Ap
819	334	8.5	688	5	US-10-631-467-644	Sequence 644, App
820	334	8.5	688	5	US-10-989-891-143	Sequence 143, App
821	334	8.5	688	5	US-10-821-234-1533	Sequence 1533, Ap
822	334	8.5	688	6	US-11-169-041-149	Sequence 149, App
823	334	8.5	688	6	US-10-072-012-354	Sequence 354, App
824	334	8.5	855	4	US-10-072-012-354	Sequence 420, App
825	332	8.4	855	4	US-10-037-012-420	Sequence 132, App
826	332	8.4	855	6	US-11-019-711-132	Sequence 13, App
827	332	8.4	855	6	US-09-776-191-64	Sequence 267, App
828	332	8.4	1019	3	US-10-157-031-667	Sequence 31, Appli
829	331.5	8.4	1019	4	US-10-156-214A-31	Sequence 37, Appli
830	331.5	8.4	1019	4	US-10-729-807-37	Sequence 2243, Ap
831	331.5	8.4	1019	4	US-10-016-248-47	Sequence 47, Appli
832	330.5	8.4	1019	4	US-10-408-765A-2243	Sequence 2266, Ap
833	330.5	8.4	3389	4	US-10-408-765A-2266	Sequence 46, Appli
834	329.5	8.4	3567	5	US-10-016-248-46	Sequence 1112, Ap
835	329.5	8.4	3567	5	US-10-453-372-1112	Sequence 45, Appli
836	329.5	8.4	3567	4	US-10-467-042-11	Sequence 11, Appli
837	329.5	8.3	1274	4	US-11-046-868-11	Sequence 12, Appli
838	328.5	8.3	1274	6	US-10-276-934-12	Sequence 10, Appli
839	328.5	8.3	1783	4	US-10-276-934-9	Sequence 9, Appli
840	328.5	8.3	1800	4	US-10-276-934-9	Sequence 14, Appli
841	328.5	8.3	2026	4	US-10-276-934-11	Sequence 13, Appli
842	328.5	8.3	2306	4	US-10-276-934-13	
843	328.5	8.3	2352	4		
844	328.5	8.3				
845	328.5	8.3				
846	328.5	8.3				

847	328	8.3	762	4	US-10-729-807-1	Sequence 1, Appli	920	309.5	7.8	799	4	US-10-072-012-410	Sequence 410, App
848	328	8.3	851	4	US-10-276-774-1798	Sequence 1798, Ap	921	309.5	7.8	799	4	US-10-072-012-416	Sequence 416, App
849	328	8.3	851	4	US-10-296-115-1143	Sequence 1143, Ap	922	309	7.8	419	4	US-10-182-263-3	Sequence 3, Appl1
850	328	8.3	855	4	US-10-295-027-1185	Sequence 1185, Ap	923	309	7.8	419	4	US-10-182-263-5	Sequence 5, Appl1
851	328	8.3	855	4	US-10-072-012-353	Sequence 353, App	924	308	7.6	419	4	US-10-182-263-4	Sequence 4, Appl1
852	328	8.3	855	4	US-10-072-012-412	Sequence 412, App	925	301.5	7.6	229	3	US-09-825-751A-72	Sequence 72, Appl1
853	328	8.3	855	4	US-10-072-012-419	Sequence 419, App	926	301.5	7.6	229	5	US-10-851-438-72	Sequence 72, Appl1
854	327.5	8.3	449	3	US-09-925-302-512	Sequence 612, App	927	299.5	7.6	467	4	US-10-406-031-2	Sequence 2, Appl1
855	327.5	8.3	449	3	US-09-925-302-512	Sequence 612, App	928	298	7.6	337	4	US-10-104-047-3904	Sequence 3904, Ap
856	327	8.3	688	4	US-10-453-827-984	Sequence 884, App	929	298	7.5	337	6	US-11-072-512-3940	Sequence 1304, Ap
857	327	8.3	757	4	US-10-072-012-44	Sequence 44, Appl	930	296	7.5	229	4	US-10-051-874-101	Sequence 101, App
858	327	8.3	855	4	US-09-776-191-2	Sequence 2, Appli	931	296	7.5	230	3	US-09-981-151A-87	Sequence 87, Appl
859	327	8.3	855	4	US-10-099-700A-2	Sequence 2, Appli	932	296	7.5	220	3	US-09-981-151A-96	Sequence 96, Appl
860	327	8.3	855	4	US-10-0308-2	Sequence 2, Appli	933	296	7.5	230	4	US-10-032-189-66	Sequence 66, Appl
861	327	8.3	855	4	US-10-302-840A-2	Sequence 2, Appli	934	296	7.5	220	4	US-10-074-978A-221	Sequence 221, App
862	327	8.3	855	4	US-10-267-219-2	Sequence 2, Appli	935	296	7.5	230	4	US-10-074-978A-222	Sequence 222, App
863	327	8.3	855	4	US-10-112-221A-2	Sequence 2, Appli	936	296	7.5	220	4	US-10-055-569A-96	Sequence 96, Appl
864	327	8.3	855	4	US-10-104-271-2	Sequence 2, Appli	937	296	7.5	230	4	US-10-042-865-155	Sequence 155, App
865	327	8.3	855	4	US-10-147-211A-2	Sequence 2, Appli	938	296	7.5	220	4	US-10-072-012-804	Sequence 804, App
866	327	8.3	855	4	US-10-156-214A-2	Sequence 2, Appli	939	296	7.5	230	4	US-10-072-012-812	Sequence 812, App
867	327	8.3	855	4	US-10-072-012-352	Sequence 352, App	940	296	7.5	230	4	US-10-037-417-135	Sequence 135, App
868	327	8.3	855	4	US-10-072-012-411	Sequence 411, App	941	296	7.5	230	6	US-11-019-711-135	Sequence 135, App
869	327	8.3	855	4	US-10-072-012-418	Sequence 418, App	942	296	7.5	932	5	US-10-450-763-51801	Sequence 51801, A
870	327	8.3	855	4	US-10-600-187-2	Sequence 2, Appli	943	293	7.4	986	4	US-10-114-153-50	Sequence 50, Appl
871	327	8.3	855	5	US-10-612-466B-2	Sequence 2, Appli	944	291.5	7.4	516	5	US-10-741-600-909	Sequence 909, App
872	327	8.3	855	6	US-11-104-110-1	Sequence 1, Appli	945	291.5	7.4	516	5	US-10-995-561-959	Sequence 559, App
873	327	8.3	855	6	US-11-104-111-22	Sequence 22, Appl	946	291	7.4	316	4	US-10-406-031-31	Sequence 31, Appl
874	324	8.2	3095	6	US-11-235-732-4	Sequence 4, Appli	947	289.5	7.3	658	4	US-09-776-191-10	Sequence 10, Appl
875	321	8.1	3130	5	US-10-453-372-42	Sequence 42, Appl	948	289.5	7.3	658	4	US-10-156-214A-10	Sequence 8, Appl
876	321	8.1	3483	5	US-10-453-372-40	Sequence 40, Appl	949	289.5	7.3	802	3	US-09-776-191-8	Sequence 8, Appl
877	321	8.1	3546	5	US-10-453-372-32	Sequence 32, Appl	950	289.5	7.3	802	3	US-10-156-214A-13	Sequence 13, App
878	319.5	8.1	455	4	US-10-406-031-17	Sequence 17, Appl	951	288.5	7.3	802	3	US-09-888-615-113	Sequence 113, App
879	318	8.1	2612	5	US-10-453-372-38	Sequence 38, Appl	956	288.5	7.3	802	4	US-10-167-749-169	Sequence 169, App
880	318	8.1	2669	4	US-10-016-248-4	Sequence 4, Appli	1022	288.5	7.3	802	4	US-10-170-481A-159	Sequence 159, App
881	318	8.1	2669	5	US-10-453-372-36	Sequence 36, Appl	1024	288.5	7.3	802	4	US-10-210-028-169	Sequence 169, App
882	318	8.1	3104	4	US-10-016-248-2	Sequence 2, Appl	1029	288.5	7.3	802	4	US-10-162-521A-169	Sequence 169, App
883	318	8.1	3104	5	US-10-453-372-34	Sequence 34, Appl	1041	288.5	7.3	802	5	US-10-918-851-169	Sequence 169, App
884	318	8.1	3104	5	US-10-453-372-62	Sequence 62, Appl	1042	288.5	7.3	802	5	US-10-805-667-169	Sequence 169, App
885	318	8.1	3104	5	US-10-453-372-64	Sequence 64, Appl	1043	288.5	7.3	802	5	US-10-897-359-169	Sequence 169, App
886	317.5	8.0	3069	6	US-11-235-732-2	Sequence 2, Appl	1044	288.5	7.3	802	5	US-10-893-802-169	Sequence 169, App
887	317.5	8.0	3100	6	US-11-235-732-7	Sequence 7, Appli	1045	288.5	7.3	802	5	US-10-897-360-169	Sequence 169, App
888	314.5	8.0	454	4	US-10-406-031-11	Sequence 11, Appl	1048	288.5	7.3	802	6	US-11-129-762-169	Sequence 169, App
889	314	8.0	855	3	US-09-900-751-2	Sequence 2, Appli	1049	288.5	7.3	802	6	US-11-037-243-113	Sequence 113, App
890	314	8.0	855	4	US-10-072-012-355	Sequence 355, App	1050	288.5	7.3	902	4	US-10-333-743-3	Sequence 3, Appl1
891	314	8.0	855	4	US-10-072-012-413	Sequence 413, App	1051	288.5	7.3	902	4	US-10-600-187-10	Sequence 10, Appl
892	313	7.9	855	4	US-10-072-012-356	Sequence 356, App	1052	288.5	7.3	902	4	US-10-297-987B-11	Sequence 11, Appl
893	313	7.9	855	4	US-10-072-012-414	Sequence 414, App	1053	287	7.2	467	4	US-10-406-031-5	Sequence 5, Appl1
894	313	7.9	855	4	US-10-072-012-417	Sequence 417, App	1054	281	7.1	488	4	US-10-865-978-25	Sequence 25, Appl
895	312	7.9	419	4	US-10-168-407-5	Sequence 5, Appl	1055	281	7.1	488	4	US-10-348-504-44	Sequence 44, Appl
896	312	7.9	467	4	US-10-406-031-8	Sequence 8, Appli	1056	281	7.1	488	4	US-10-407-123-27	Sequence 27, Appl
897	312	7.9	1031	4	US-10-451-168-80	Sequence 80, Appl	1057	280	7.1	527	3	US-09-887-457-18	Sequence 18, Appl
898	312	7.9	1031	5	US-10-980-387-80	Sequence 80, Appl	1058	280	7.1	527	3	US-09-887-455-19	Sequence 19, Appl
899	311	7.9	419	4	US-10-168-407-3	Sequence 3, Appli	1059	280	7.1	527	4	US-10-360-101-203	Sequence 203, App
900	311	7.9	419	4	US-10-168-407-6	Sequence 6, Appli	1060	280	7.1	527	4	US-10-432-842-1	Sequence 1, Appl1
901	310.5	7.9	409	5	US-10-506-301-2	Sequence 2, Appli	1061	280	7.1	527	4	US-10-705-633-1	Sequence 1, Appl1
902	310.5	7.9	415	4	US-10-506-301-1	Sequence 1, Appli	1062	280	7.1	527	5	US-10-742-887-51	Sequence 51, Appl
903	310.5	7.9	415	4	US-10-670-628-2	Sequence 2, Appli	1063	280	7.1	527	6	US-11-134-385-19	Sequence 19, Appl
904	310.5	7.9	419	3	US-09-997-623-4	Sequence 4, Appli	1064	280	7.1	562	3	US-09-969-271-7	Sequence 7, Appl1
905	310.5	7.9	419	3	US-09-978-917A-4	Sequence 4, Appli	1065	280	7.1	562	3	US-09-974-298-145	Sequence 145, App
906	310.5	7.9	419	4	US-10-182-263-1	Sequence 1, Appli	1066	280	7.1	562	4	US-10-193-656-8	Sequence 8, Appl1
907	310.5	7.9	419	4	US-10-168-407-1	Sequence 1, Appli	1067	280	7.1	562	4	US-10-410-930-26	Sequence 26, Appl
908	310.5	7.9	419	5	US-10-506-301-3	Sequence 3, Appli	1068	280	7.1	562	4	US-10-411-027-26	Sequence 26, Appl
909	310.5	7.9	419	5	US-10-492-191-1	Sequence 1, Appli	1069	280	7.1	562	4	US-10-411-026-26	Sequence 26, Appl
910	310.5	7.9	419	6	US-11-004-111-4	Sequence 4, Appli	1070	280	7.1	562	4	US-10-410-962-26	Sequence 26, Appl
911	310.5	7.9	453	4	US-10-406-031-14	Sequence 14, Appl	1071	280	7.1	562	4	US-10-411-030-26	Sequence 26, Appl
912	310.5	7.9	461	3	US-09-997-623-2	Sequence 2, Appli	1072	280	7.1	562	4	US-10-410-930-26	Sequence 26, Appl
913	310.5	7.9	461	3	US-09-978-917A-2	Sequence 2, Appli	1073	280	7.1	562	4	US-10-411-027-26	Sequence 26, Appl
914	310.5	7.9	461	4	US-10-182-263-2	Sequence 2, Appli	1074	280	7.1	562	4	US-10-287-994-26	Sequence 26, Appl
915	310.5	7.9	461	4	US-10-168-407-2	Sequence 2, Appli	1075	280	7.1	562	4	US-10-410-913-26	Sequence 26, Appl
916	310.5	7.9	461	5	US-10-756-149-5387	Sequence 5387, Ap	1076	280	7.1	562	4	US-10-410-913-26	Sequence 26, Appl
917	310.5	7.9	419	6	US-11-004-111-2	Sequence 2, Appli	1077	280	7.1	562	4	US-10-712-124-108	Sequence 108, App
918	310	7.9	419	4	US-10-182-263-6	Sequence 6, Appli	1078	280	7.1	562	5	US-10-741-600-911	Sequence 911, App
919	310	7.9	419	4	US-10-168-407-4	Sequence 4, Appli	1079	280	7.1	562	5	US-10-410-980-26	Sequence 26, Appl

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1081	280	7.1	562	5	US-10-492-261-26	Sequence 26, Appl	1154	275.5	7.0	444	4	US-10-411-012-8	Sequence 8, Appl
1082	280	7.1	562	5	US-10-995-561-561	Sequence 561, App	1155	275.5	7.0	444	4	US-10-287-994-8	Sequence 8, Appl
1083	280	7.1	562	6	US-11-169-041-153	Sequence 153, App	1156	275.5	7.0	444	4	US-10-410-913-8	Sequence 8, Appl
1084	280	7.1	562	6	US-11-183-205-26	Sequence 26, Appl	1157	275.5	7.0	444	4	US-10-738-777-3	Sequence 3, Appl
1085	279.5	7.1	782	4	US-10-097-340-312	Sequence 312, App	1158	275.5	7.0	444	5	US-10-410-980-8	Sequence 8, Appl
1086	279.5	7.1	782	6	US-11-050-926-312	Sequence 312, App	1159	275.5	7.0	444	5	US-10-410-997-8	Sequence 8, Appl
1087	279	7.1	527	4	US-10-765-633-2	Sequence 2, Appl	1160	275.5	7.0	444	6	US-10-492-261-8	Sequence 8, Appl
1088	279	7.1	932	4	US-10-363-937-6	Sequence 6, Appl	1161	275.5	7.0	459	4	US-11-183-205-8	Sequence 8, Appl
1089	279	7.1	932	6	US-11-167-040-6	Sequence 6, Appl	1162	275.5	7.0	459	4	US-10-741-601-503	Sequence 503, App
1090	279	7.1	970	3	US-09-888-615-101	Sequence 101, App	1163	275.5	7.0	459	4	US-10-741-601-804	Sequence 504, App
1091	279	7.1	970	6	US-11-037-243-101	Sequence 101, App	1164	275.5	7.0	641	4	US-10-617-619-8	Sequence 8, Appl
1092	278.5	7.1	264	3	US-09-978-418-34	Sequence 34, Appl	1165	275.5	7.0	641	6	US-11-227-340-8	Sequence 8, Appl
1093	278.5	7.1	264	5	US-10-485-231-34	Sequence 34, Appl	1166	275.5	7.0	671	5	US-10-841-250-6	Sequence 6, Appl
1094	278.5	7.1	466	4	US-10-017-122-2	Sequence 2, Appl	1167	275.5	7.0	671	6	US-11-029-003-6	Sequence 6, Appl
1095	278.5	7.1	466	4	US-10-375-741-14	Sequence 14, Appl	1168	275.5	7.0	679	4	US-10-617-619-11	Sequence 11, Appl
1096	278.5	7.1	481	4	US-10-741-601-501	Sequence 501, App	1169	275.5	7.0	679	6	US-11-227-340-11	Sequence 11, Appl
1097	278.5	7.1	481	4	US-10-741-601-502	Sequence 502, App	1170	275	7.0	1113	5	US-10-926-083-4	Sequence 4, Appl
1098	278.5	7.1	701	4	US-10-617-619-6	Sequence 6, Appl	1171	273	6.9	560	3	US-09-912-559-3	Sequence 3, Appl
1099	278.5	7.1	701	6	US-11-227-340-6	Sequence 6, Appl	1172	273	6.9	560	3	US-09-912-559-4	Sequence 3, Appl
1100	278	7.0	408	6	US-11-097-143-42048	Sequence 42048, A	1173	273	6.9	560	4	US-10-172-712-32	Sequence 32, Appl
1101	278	7.0	488	4	US-10-406-031-27	Sequence 27, Appl	1174	273	6.9	560	4	US-10-391-215-5	Sequence 5, Appl
1102	278	7.0	488	5	US-10-723-860-261	Sequence 261, App	1175	273	6.9	560	4	US-10-391-215-6	Sequence 6, Appl
1103	278	7.0	488	5	US-10-492-191-23	Sequence 23, Appl	1176	273	6.9	560	4	US-10-381-215-7	Sequence 7, Appl
1104	278	7.0	1113	4	US-10-464-368-78	Sequence 78, Appl	1177	273	6.9	560	5	US-10-391-215-8	Sequence 8, Appl
1105	278	7.0	1113	6	US-11-067-811-4	Sequence 4, Appl	1178	273	6.9	560	5	US-10-719-993-854	Sequence 854, App
1106	277.5	7.0	476	5	US-10-494-004-1	Sequence 1, Appl	1179	273	6.9	560	5	US-10-930-754-3	Sequence 3, Appl
1107	276.5	7.0	426	3	US-09-951-121A-1	Sequence 1, Appl	1180	273	6.9	560	5	US-10-930-754-4	Sequence 4, Appl
1108	276.5	7.0	426	3	US-09-848-107-1	Sequence 1, Appl	1181	273	6.9	560	5	US-10-756-149-8450	Sequence 5450, App
1109	276.5	7.0	426	4	US-10-295-682-1	Sequence 1, Appl	1182	272.5	6.9	296	4	US-10-148-671-17	Sequence 17, Appl
1110	276.5	7.0	655	4	US-10-172-712-28	Sequence 28, Appl	1183	272	6.9	488	4	US-10-712-332-1	Sequence 169, App
1111	276	7.0	249	3	US-09-961-721-5	Sequence 46, Appl	1184	271.5	6.9	244	4	US-10-097-340-169	Sequence 2, Appl
1112	276	7.0	249	4	US-10-170-789-46	Sequence 46, Appl	1185	271.5	6.9	244	4	US-10-282-907-2	Sequence 97, Appl
1113	276	7.0	249	6	US-11-151-601-28	Sequence 28, Appl	1186	271.5	6.9	244	4	US-10-301-822-97	Sequence 530, App
1114	276	7.0	251	3	US-09-961-721-4	Sequence 4, Appl	1187	271.5	6.9	244	4	US-10-295-027-530	Sequence 131, App
1115	276	7.0	251	3	US-10-170-789-45	Sequence 45, Appl	1188	271.5	6.9	244	4	US-10-173-999-131	Sequence 25, Appl
1116	276	7.0	251	6	US-11-151-601-27	Sequence 27, Appl	1189	271.5	6.9	244	4	US-10-344-394-25	Sequence 28, Appl
1117	276	7.0	259	4	US-10-107-782-214	Sequence 214, App	1190	271.5	6.9	244	4	US-10-757-262-28	Sequence 9, Appl
1118	276	7.0	259	4	US-10-038-854-100	Sequence 100, App	1191	271.5	6.9	244	5	US-10-868-490A-11	Sequence 11, Appl
1119	276	7.0	396	4	US-10-700-778-1	Sequence 1, Appl	1192	271.5	6.9	244	5	US-10-868-490A-13	Sequence 13, Appl
1120	276	7.0	527	4	US-10-705-633-3	Sequence 3, Appl	1193	271.5	6.9	244	5	US-10-868-490A-15	Sequence 15, Appl
1121	275.5	7.0	405	4	US-10-360-101-225	Sequence 225, App	1194	271.5	6.9	244	5	US-10-961-139-14	Sequence 14, Appl
1122	275.5	7.0	406	3	US-09-782-587B-1	Sequence 1, Appl	1195	271.5	6.9	244	5	US-10-961-139-14	Sequence 14, Appl
1123	275.5	7.0	406	3	US-09-782-587B-3	Sequence 3, Appl	1196	271.5	6.9	244	5	US-10-756-149-9963	Sequence 4963, App
1124	275.5	7.0	406	4	US-10-109-498-1	Sequence 1, Appl	1197	271.5	6.9	244	6	US-11-050-926-169	Sequence 97, Appl
1125	275.5	7.0	406	4	US-10-255-032-1	Sequence 1, Appl	1198	271.5	6.9	244	6	US-11-186-284-97	Sequence 670, App
1126	275.5	7.0	406	4	US-10-281-727-1	Sequence 1, Appl	1199	271.5	6.9	253	6	US-11-050-857-670	Sequence 671, App
1127	275.5	7.0	406	4	US-10-386-898-7	Sequence 7, Appl	1200	271.5	6.9	1006	4	US-10-050-857-671	Sequence 62, Appl
1128	275.5	7.0	406	4	US-10-383-898-1	Sequence 1, Appl	1201	271	6.9	650	4	US-10-401-077-1	Sequence 1, Appl
1129	275.5	7.0	406	4	US-10-617-500-1	Sequence 1, Appl	1202	269	6.8	462	4	US-10-416-952-2	Sequence 2, Appl
1130	275.5	7.0	406	4	US-10-263-205B-2	Sequence 2, Appl	1203	269	6.8	462	4	US-09-808-602-103	Sequence 103, App
1131	275.5	7.0	406	4	US-10-617-619-1	Sequence 1, Appl	1204	269	6.8	462	4	US-10-411-037-10	Sequence 10, Appl
1132	275.5	7.0	406	4	US-10-701-294-1	Sequence 1, Appl	1205	269	6.8	462	4	US-10-411-026-10	Sequence 10, Appl
1133	275.5	7.0	406	4	US-10-669-537-1	Sequence 1, Appl	1206	269	6.8	643	3	US-10-411-049-10	Sequence 10, Appl
1134	275.5	7.0	406	4	US-10-738-777-2	Sequence 2, Appl	1207	269	6.8	643	4	US-10-410-930-10	Sequence 10, Appl
1135	275.5	7.0	406	5	US-10-822-943-1	Sequence 1, Appl	1212	267	6.8	462	4	US-10-410-997-10	Sequence 10, Appl
1136	275.5	7.0	406	5	US-11-021-239-1	Sequence 1, Appl	1213	267	6.8	462	4	US-10-410-997-10	Sequence 10, Appl
1137	275.5	7.0	406	6	US-11-111-072-1	Sequence 1, Appl	1214	267	6.8	462	4	US-10-411-012-10	Sequence 10, Appl
1138	275.5	7.0	406	6	US-11-111-079-1	Sequence 1, Appl	1215	267	6.8	462	4	US-10-287-994-10	Sequence 10, Appl
1139	275.5	7.0	406	6	US-11-186-669-1	Sequence 1, Appl	1216	267	6.8	462	4	US-10-410-913-10	Sequence 10, Appl
1140	275.5	7.0	406	6	US-11-227-340-1	Sequence 1, Appl	1217	267	6.8	462	4	US-10-410-980-10	Sequence 10, Appl
1141	275.5	7.0	406	6	US-10-411-037-8	Sequence 8, Appl	1218	267	6.8	462	5	US-10-410-897-10	Sequence 10, Appl
1142	275.5	7.0	406	6	US-10-382-248-34	Sequence 34, Appl	1219	267	6.8	462	5	US-10-410-897-10	Sequence 10, Appl
1143	275.5	7.0	406	6	US-10-411-026-8	Sequence 8, Appl	1220	267	6.8	462	6	US-11-183-205-10	Sequence 10, Appl
1144	275.5	7.0	406	6	US-10-410-962-8	Sequence 8, Appl	1221	265.5	6.7	250	6	US-11-097-143-24561	Sequence 24561, A
1145	275.5	7.0	406	6	US-10-411-069-8	Sequence 8, Appl	1222	265	6.7	419	4	US-10-382-248-16	Sequence 36, Appl
1146	275.5	7.0	406	6	US-10-411-069-8	Sequence 8, Appl	1223	264.5	6.7	900	5	US-10-865-978-15	Sequence 15, Appl
1147	275.5	7.0	406	6	US-10-411-069-8	Sequence 8, Appl	1224	264	6.7	431	4	US-10-247-671-149	Sequence 149, App
1148	275.5	7.0	406	6	US-10-411-069-8	Sequence 8, Appl	1225	264	6.7				
1149	275.5	7.0	406	6	US-10-411-069-8	Sequence 8, Appl							
1150	275.5	7.0	406	6	US-10-411-069-8	Sequence 8, Appl							
1151	275.5	7.0	406	6	US-10-411-069-8	Sequence 8, Appl							
1152	275.5	7.0	406	6	US-10-411-069-8	Sequence 8, Appl							

1226	263.5	6.7	411	4	US-10-744-927-1	Sequence 1, Appl1	1299	258.5	6.6	411	4	US-10-407-821-2	Sequence 2, Appl1
1227	263.5	6.7	494	6	US-11-094-519A-35	Sequence 35, Appl1	1300	258.5	6.6	411	5	US-10-828-531B-16	Sequence 16, Appl1
1228	263	6.7	431	4	US-10-076-421-2	Sequence 2, Appl1	1301	258.5	6.6	411	6	US-11-019-448-3	Sequence 3, Appl1
1229	263	6.7	431	4	US-10-171-311-184	Sequence 184, App	1302	258.5	6.6	412	5	US-10-825-911-2	Sequence 2, Appl1
1230	263	6.7	431	4	US-10-301-822-161	Sequence 161, App	1303	258.5	6.6	507	6	US-11-097-143-40698	Sequence 40698, A
1231	263	6.7	431	4	US-10-131-985-21	Sequence 21, Appl	1304	257.5	6.5	751	5	US-10-865-978-17	Sequence 17, Appl1
1232	263	6.7	431	4	US-10-295-027-414	Sequence 414, App	1305	257	6.5	215	4	US-10-051-874-102	Sequence 102, App
1233	263	6.7	431	4	US-10-295-027-1275	Sequence 1275, Ap	1306	257	6.5	217	3	US-09-881-151A-88	Sequence 88, Appl1
1234	263	6.7	431	4	US-10-411-037-34	Sequence 34, Appl1	1307	257	6.5	217	3	US-09-881-151A-97	Sequence 97, Appl1
1235	263	6.7	431	4	US-10-411-026-34	Sequence 34, Appl1	1308	257	6.5	217	4	US-10-032-189-67	Sequence 67, Appl1
1236	263	6.7	431	4	US-10-410-962-34	Sequence 34, Appl1	1309	257	6.5	217	4	US-10-074-978A-223	Sequence 223, App
1237	263	6.7	431	4	US-10-411-049-34	Sequence 34, Appl1	1310	257	6.5	217	4	US-10-055-569A-97	Sequence 97, Appl1
1238	263	6.7	431	4	US-10-410-930-34	Sequence 34, Appl1	1311	257	6.5	217	4	US-10-042-865-156	Sequence 156, App
1239	263	6.7	431	4	US-10-410-997-34	Sequence 34, Appl1	1312	257	6.5	217	4	US-10-072-012-805	Sequence 805, App
1240	263	6.7	431	4	US-10-411-012-34	Sequence 34, Appl1	1313	257	6.5	217	4	US-10-072-012-813	Sequence 813, App
1241	263	6.7	431	4	US-10-287-994-34	Sequence 34, Appl1	1314	257	6.5	217	4	US-10-037-417-136	Sequence 136, App
1242	263	6.7	431	4	US-10-410-913-34	Sequence 34, Appl1	1315	257	6.5	217	6	US-11-019-711-136	Sequence 136, App
1243	263	6.7	431	5	US-10-741-600-1265	Sequence 1265, Ap	1316	257	6.5	529	4	US-10-398-037-2	Sequence 2, Appl1
1244	263	6.7	431	5	US-10-741-600-1266	Sequence 1266, Ap	1317	257	6.5	1039	5	US-10-865-978-30	Sequence 30, Appl1
1245	263	6.7	431	5	US-10-901-417-31	Sequence 21, Appl1	1318	256	6.5	207	4	US-10-004-378A-147	Sequence 147, App
1246	263	6.7	431	5	US-10-410-980-34	Sequence 34, Appl1	1319	255.5	6.5	244	3	US-09-796-294-11	Sequence 11, Appl1
1247	263	6.7	431	5	US-10-645-756-38	Sequence 38, Appl1	1320	255.5	6.5	244	4	US-10-461-787-11	Sequence 11, Appl1
1248	263	6.7	431	5	US-10-410-897-34	Sequence 34, Appl1	1321	255.5	6.5	244	6	US-11-251-455-13	Sequence 13, Appl1
1249	263	6.7	431	5	US-10-492-261-34	Sequence 34, Appl1	1322	255.5	6.5	441	5	US-10-741-600-829	Sequence 829, App
1250	263	6.7	431	5	US-10-995-561-807	Sequence 807, App	1323	254.5	6.5	427	5	US-10-455-772-52	Sequence 52, Appl1
1251	263	6.7	431	5	US-10-995-561-808	Sequence 808, App	1324	254.5	6.5	427	4	US-10-712-332-3	GENERAL INFORMA
1252	263	6.7	431	6	US-11-186-284-161	Sequence 161, App	1325	254.5	6.5	426	5	US-10-455-772-24	Sequence 48, Appl1
1253	263	6.7	431	6	US-11-183-205-34	Sequence 34, Appl1	1326	254.5	6.5	413	6	US-11-097-143-6243	Sequence 6243, Ap
1254	263	6.7	437	4	US-10-087-192-594	Sequence 594, App	1327	254	6.4	314	6	US-10-264-468B-1	Sequence 1, Appl1
1255	262.5	6.7	415	4	US-10-466-998A-2	Sequence 2, Appl1	1328	254	6.4	411	3	US-09-264-468B-1	Sequence 1, Appl1
1256	262.5	6.7	415	6	US-11-166-028-1	Sequence 1, Appl1	1329	253.5	6.4	466	5	US-10-455-772-22	Sequence 22, Appl1
1257	262.5	6.7	433	5	US-10-468-671-1	Sequence 1, Appl1	1330	253.5	6.4	466	5	US-10-455-772-22	Sequence 22, Appl1
1258	262.5	6.7	435	4	US-10-038-854-95	Sequence 95, Appl1	1331	253.5	6.4	467	3	US-09-808-602-93	Sequence 93, Appl1
1259	262.5	6.7	456	4	US-10-038-854-96	Sequence 96, Appl1	1332	253.5	6.4	467	3	US-09-808-602-93	Sequence 93, Appl1
1260	262.5	6.7	461	3	US-09-884-901-3	Sequence 3, Appl1	1333	253.5	6.4	487	5	US-10-455-772-16	Sequence 16, Appl1
1261	262.5	6.7	461	4	US-10-132-829-5	Sequence 5, Appl1	1334	253.5	6.4	487	5	US-10-455-772-46	Sequence 46, Appl1
1262	262.5	6.7	461	4	US-10-234-406-6	Sequence 6, Appl1	1335	253.5	6.4	487	5	US-10-455-772-46	Sequence 50, Appl1
1263	262.5	6.7	461	4	US-10-234-406-8	Sequence 8, Appl1	1336	253.5	6.4	1043	4	US-10-016-248-48	Sequence 48, Appl1
1264	262.5	6.7	461	4	US-10-133-907-5	Sequence 5, Appl1	1337	253.5	6.4	1048	4	US-10-016-248-49	Sequence 49, Appl1
1265	262.5	6.7	461	4	US-10-038-854-92	Sequence 92, Appl1	1338	253	6.4	273	4	US-10-148-671-25	Sequence 25, Appl1
1266	262.5	6.7	461	4	US-10-038-854-93	Sequence 93, Appl1	1339	253	6.4	423	3	US-10-455-772-21	Sequence 26, Appl1
1267	262.5	6.7	461	4	US-10-038-854-94	Sequence 94, Appl1	1340	252.5	6.4	452	3	US-09-808-602-21	Sequence 21, Appl1
1268	262.5	6.7	461	4	US-10-239-498A-5	Sequence 5, Appl1	1341	252.5	6.4	452	5	US-10-455-772-42	Sequence 42, Appl1
1269	262.5	6.7	461	5	US-10-741-600-832	Sequence 832, App	1342	252.5	6.4	456	5	US-10-455-772-18	Sequence 18, Appl1
1270	262.5	6.7	461	5	US-10-455-772-152	Sequence 752, App	1343	252.5	6.4	456	5	US-10-455-772-30	Sequence 30, Appl1
1271	262.5	6.7	461	5	US-10-455-772-154	Sequence 754, App	1344	252.5	6.4	487	5	US-10-455-772-14	Sequence 14, Appl1
1272	262.5	6.7	461	6	US-11-172-459-1	Sequence 1, Appl1	1345	252	6.4	719	5	US-10-865-978-16	Sequence 16, Appl1
1273	262.5	6.7	696	5	US-10-841-250-8	Sequence 8, Appl1	1346	252	6.4	889	5	US-10-865-978-32	Sequence 32, Appl1
1274	262.5	6.7	696	5	US-10-841-819B-23	Sequence 23, Appl1	1347	251.5	6.4	456	5	US-10-455-772-17	Sequence 17, Appl1
1275	262.5	6.7	696	6	US-11-029-003-8	Sequence 8, Appl1	1348	251.5	6.4	487	3	US-09-808-602-17	Sequence 17, Appl1
1276	262.5	6.7	1042	3	US-09-776-191-62	Sequence 62, Appl1	1349	251.5	6.4	487	3	US-09-808-602-19	Sequence 19, Appl1
1277	262.5	6.7	1042	4	US-10-156-214A-29	Sequence 29, Appl1	1350	251.5	6.4	487	3	US-09-800-198-17	Sequence 17, Appl1
1278	262.5	6.7	1042	5	US-10-865-978-2	Sequence 2, Appl1	1351	251.5	6.4	487	3	US-09-800-198-19	Sequence 19, Appl1
1279	262.5	6.7	1042	5	US-10-926-083-2	Sequence 2, Appl1	1352	251	6.4	433	4	US-10-372-966-5	Sequence 5, Appl1
1280	262.5	6.7	1042	6	US-11-067-811-1	Sequence 1, Appl1	1353	250	6.3	1379	6	US-11-097-143-3372	Sequence 3372, Ap
1281	262.5	6.7	1044	5	US-10-865-978-9	Sequence 9, Appl1	1354	249.5	6.3	403	3	US-09-880-503-6	Sequence 6, Appl1
1282	262.5	6.7	1076	4	US-10-276-774-2345	Sequence 2345, Ap	1355	249.5	6.3	403	6	US-11-019-448-6	Sequence 6, Appl1
1283	262	6.6	280	4	US-10-148-671-26	Sequence 26, Appl1	1356	249.5	6.3	822	3	US-09-147-947-6	Sequence 47, Appl1
1284	261.5	6.6	415	3	US-09-118-748-2	Sequence 2, Appl1	1357	249.5	6.3	822	4	US-10-757-262-34	Sequence 34, Appl1
1285	261.5	6.6	443	5	US-10-741-600-830	Sequence 830, App	1358	249.5	6.3	875	5	US-10-723-860-4046	Sequence 4046, Ap
1286	261	6.6	431	4	US-10-193-656-4	Sequence 4, Appl1	1359	249.5	6.3	875	5	US-10-843-299-2	Sequence 2, Appl1
1287	261	6.6	431	5	US-10-723-860-870	Sequence 870, App	1360	249.5	6.3	986	3	US-09-285-385C-19	Sequence 19, Appl1
1288	261	6.6	431	5	US-10-756-149-4928	Sequence 428, Ap	1361	249	6.3	235	3	US-09-776-191-6	Sequence 6, Appl1
1289	261	6.6	431	5	US-10-504-287-2	Sequence 2, Appl1	1362	249	6.3	235	4	US-10-156-214A-6	Sequence 6, Appl1
1290	260.5	6.6	437	4	US-10-712-332-2	GENERAL INFORMA	1363	249	6.3	251	3	US-09-789-210-47	Sequence 47, Appl1
1291	260.5	6.6	1032	5	US-10-719-993-814	Sequence 814, App	1364	249	6.3	263	3	US-09-888-611-96	Sequence 96, Appl1
1292	260	6.6	431	4	US-10-282-174-562	Sequence 562, App	1365	249	6.3	263	6	US-11-037-243-93	Sequence 96, Appl1
1293	260	6.6	431	5	US-10-600-009-562	Sequence 562, App	1366	248.5	6.3	250	3	US-09-898-837A-45	Sequence 45, Appl1
1294	259.5	6.6	991	5	US-10-865-978-34	Sequence 34, App	1367	248.5	6.3	250	3	US-09-789-210-51	Sequence 51, Appl1
1295	259	6.6	227	4	US-10-045-367A-4	Sequence 4, Appl1	1368	248.5	6.3	251	3	US-09-898-837A-41	Sequence 41, Appl1
1296	259	6.6	227	4	US-10-170-789-54	Sequence 54, Appl1	1369	248	6.3	230	3	US-09-789-210-62	Sequence 62, Appl1
1297	259	6.6	227	6	US-11-151-601-36	Sequence 36, Appl1	1370	248	6.3	230	6	US-11-104-110-3	Sequence 3, Appl1
1298	258.5	6.6	411	3	US-09-880-503-3	Sequence 3, Appl1	1371	248	6.3	230	6	US-11-104-111-24	Sequence 24, Appl1

1372	248	6.3	231	4	US-10-600-187-6	Sequence 6, Appli	1445	244	6.2	638	6	US-11-054-281-114	Sequence 114, App
1373	248	6.3	263	5	US-10-733-968A-74	Sequence 74, Appli	1446	243.5	6.2	435	6	US-11-097-143-1168	Sequence 41688, A
1374	248	6.3	638	3	US-09-808-602-102	Sequence 102, Appl	1447	243	6.2	273	4	US-10-028-248A-63	Sequence 63, Appl
1375	248	6.3	638	3	US-09-800-198-85	Sequence 85, Appl	1448	243	6.2	273	4	US-10-107-782-63	Sequence 97, Appl
1376	248	6.3	638	4	US-10-099-322-111	Sequence 111, App	1449	243	6.2	282	4	US-10-051-874-27	Sequence 276, App
1377	248	6.3	638	4	US-10-044-564-111	Sequence 111, App	1450	242.5	6.1	232	4	US-10-156-214A-97	Sequence 37, Appl
1378	248	6.3	638	4	US-10-403-161-50	Sequence 50, Appl	1451	242.5	6.1	326	5	US-10-865-978-37	Sequence 4, Appli
1379	248	6.3	638	4	US-10-287-226-400	Sequence 400, App	1452	242.5	6.1	610	5	US-10-921-793-4	Sequence 4, Appli
1380	248	6.3	638	4	US-10-287-226-658	Sequence 658, App	1453	242.5	6.1	610	5	US-10-931-198-4	Sequence 4, Appli
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1382	248	6.3	638	5	US-10-741-600-854	Sequence 854, App	1455	242.5	6.1	730	5	US-10-287-436A-461	Sequence 1158, Ap
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1392	247	6.3	638	4	US-10-099-322-30	Sequence 30, Appl	1465	241.5	6.1	822	4	US-10-239-032-8	Sequence 98, Appl
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1395	247	6.3	638	4	US-10-287-226-402	Sequence 402, App	1468	241	6.1	346	3	US-10-885-784-8	Sequence 8, Appli
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1397	247	6.3	739	6	US-11-057-047-2	Sequence 27, Appl	1470	241	6.1	278	3	US-09-813-432-12	Sequence 12, Appl
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